



برنامج

## فني عمليات

دبلوم نظام ثلاث سنوات

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اعداد الجهاز التنفيذي للمجلس الاعلى لكليات المجتمع

أعضاء اللجنة العلمية  
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**SYLLABUS**  
**YEAR (1)**  
**SEMESTER (1)**

## I. المعلومات العامة عن المقرر:

1.	اسم المقرر:	لغة عربية				
2.	رمز المقرر ورقمه:					
3.	الساعات المعتمدة:	محاضرة	سمنار	عملي	تدريب	الإجمالي
		2				2
4.	المستوى والفصل الدراسي:					
5.	المتطلبات السابقة لدراسة المقرر (إن وجدت):					
6.	المتطلبات المصاحبة لدراسة المقرر (إن وجدت):					
7.	البرنامج/التي يتم فيها تدريس المقرر:					
8.	لغة تدريس المقرر:					
9.	نظام الدراسة:					
10.	أسلوب الدراسة في البرنامج:					
11.	مكان تدريس المقرر:					
12.	اسم معد مواصفات المقرر:					
13.	تاريخ اعتماد مجلس الكلية:					

## II. وصف المقرر:

دراسة اللغة العربية من خلال نصوص أدبية وتطبيقات نحوية ، يأخذ أنماط من النصوص الأدبية والشعرية والنثرية من مختلف العصور الأدبية، ثم استخراج الشواهد النحوية لغرض التطبيق

## III. مخرجات التعلم

ملخص للمعارف والمهارات التي سيقدمها المقرر:

- الإلمام بأشهر أبواب النحو التي يستقيم بها اللسان ويعتبر من سلامة القول منطوقاً ومكتوباً. 1.
- اكتساب الذوق الأدبي من خلال الإطلاع على أشهر النصوص الأدبية. 2.

## تسكين مخرجات التعلم

أولاً: تسكين مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التدريس والتقويم:

مخرجات المقرر / المعرفة والفهم	استراتيجية التدريس	استراتيجية التقويم
A1 . يعرف اسس وقواعد كتابة التقرير والرسالة الإدارية	المحاضرة المناقشة العصف الذهني	اسئلة مقالية اسئلة قصيرة اسئلة هادفة
A2 . يميز طرق كتابة السيرة الذاتية	المحاضرة المناقشة العصف الذهني	اسئلة مقالية اسئلة قصيرة اسئلة هادفة
A3 . يحدد القواعد النحوية للجملة الاسمية والفعلية	المحاضرة المناقشة العصف الذهني	اسئلة مقالية اسئلة قصيرة اسئلة هادفة
A4 . يعرف القواعد الإملائية اللازمة لضبط الكتابة	المحاضرة المناقشة	اسئلة مقالية اسئلة قصيرة

اسئلة هادفة	العصف الذهني	
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A5 . يميز نصوص الشعر العربي ويحللها ويتذوقها

ثانيا: تسكين مخرجات تعلم المقرر (المهارات الذهنية) باستراتيجية التدريس و التقييم:		
استراتيجية التقييم	استراتيجية التدريس	مخرجات المقرر/ المهارات الذهنية
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	B1 . يفرق بين الجمل الاسمية والفعلية
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	B2 . يحلل النصوص الأدبية ويتذوقها

ثالثا: تسكين مخرجات تعلم المقرر (المهارات المهنية والعملية) باستراتيجية التدريس والتقييم:		
استراتيجية التقييم	استراتيجية التدريس	مخرجات المقرر/ المهارات المهنية والعملية
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	C1.يلم بأهم قواعد النحو لتحسين مهارة القراءة الجهرية
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	C2. ستخدم القواعد النحوية والإملائية في كتابة التقارير والرسائل الإدارية والسيرة الذاتية

رابعا: تسكين مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقييم:		
استراتيجية التقييم	استراتيجية التدريس	مخرجات المقرر
		لا ينطبق

IV. تحديد وكتابة مواضع المقرر الرئيسية والفرعية (النظرية والعملية) وربطها بمخرجات التعلم المقصودة للمساق مع تحديد الساعات المعتمدة لها.

كتابة وحدات /مواضيع محتوى المقرر					
أولاً: الجانب النظري					
الرقم	مخرجات تعلم المقرر	وحدات/ موضوعات المقرر	المواضيع التفصيلية	عدد الأسابيع	الساعات الفعلية
1	B1, C1	مهارة القراءة الجهرية	■ قراءة نصوص نثرية وشعرية	2	4

		تدريبات صفية			
4	2	قراءة نصوص نثرية وشعرية تدريبات صفية	مهارة القراءة الصامتة	B1, C1	2
2	1	كتابة الرسالة الإدارية تدريبات صفية	مهارة الكتابة الوظيفية	A1, C2	3
2	1	كتابة التقرير تدريبات صفية	الكتابة الوظيفية	A1, C2	4
2	1	اختبار نصف الفصل	اختبار نصف الفصل	A1, B1, C1, C2	5
2	1	السيرة الذاتية تدريبات صفية	السيرة الذاتية	A2, B1, C1, C2	6
4	2	القواعد النحوية (الجملة الاسمية ونواسخها) تدريبات صفية	مهارة ضبط الكتابة	A3, B1, C1	7
2	1	القواعد النحوية (الجملة الفعلية ومكملاتها) تدريبات صفية	مهارة ضبط الكتابة	A3, B1, C1	8
4	2	بعض القواعد الإملائية (همزتا الوصل والقطع - الهمزة المتوسطة - علامات الترقيم) تدريبات صفية	مهارة ضبط الكتابة	A4, C2	9
2	1	دراسة نصوص من الشعر العربي وتحليلها وتذوقها تدريبات صفية + تكاليف	التذوق الادبي	A5, B2	10
2	1		الامتحان النهائي	A2, A3, A4, A5, B1, B2, C1	11
32	16	إجمالي الأسابيع والساعات			

### ثانياً: الجانب العملي:

تكتب تجارب (مواضيع) العملي

الرقم	التجارب المعملية	عدد الأسابيع	الساعات الفعلية	مخرجات التعلم
	لا ينطبق			
إجمالي الأسابيع والساعات				

### V. استراتيجيات التدريس:

المحاضرة

المناقشة

العصف الذهني

## مناقشة مجموعات صغيرة

تكاليف

## VI. التعيينات والتكليفات:

الرقم	التكليف/النشاط	مخرجات التعلم	الأسبوع	الدرجة
1	كتابة التقرير	A2, C2	6-8	2.5
2	السيرة الذاتية	A2, B1, C1, C2	7-10	2.5

## VII. جدول طرق/ أدوات التقييم خلال الفصل الدراسي

الرقم	طرق/أدوات التقييم	الأسبوع	الدرجة	نسبة الدرجة إلى درجة التقييم النهائي	المخرجات التي يحققها
1	الحضور	15-1	5	%5	A1, A2, A3, A4, A5, B1, C1
2	الواجبات	12-4	5	%5	A1, A2, B1, C1, C2
3	اختبار منتصف الفصل	7	20	%20	A1, B1, C1, C2
4	الاختبار النهائي	17-15	70	%70	A2, A3, A4, A5, B1, B2, C1
			100	%100	

## VIII. مصادر التعلم:

(المؤلف، العام، العنوان، مكان النشر والناشر)

المراجع الرئيسية: (لا تزيد عن مرجعين)

1 تاريخ الأدب العربي / د. أحمد حسن الزيات.  
المصادر الأدبية واللغوية في التراث العربي / د. عز الدين إسماعيل.

المراجع المساندة

1. الأدب العربي الحديث / د. محمد صالح الشطبي.

الكتب والمراجع الاثرانية (الدوريات العلمية... الخ) (يرفق قائمة بذلك):

www.google.com

المصادر الإلكترونية ومواقع الإنترنت... الخ

مواد تعلم أخرى مثل البرامج التي تعتمد على الكمبيوتر أو الأقراص المضغوطة ... الخ

## IX. الضوابط والسياسات المتبعة في المقرر.

بعد الرجوع للوائح الجامعة يتم كتابة السياسة العامة للمساق فيما يتعلق بالآتي:

1.	سياسة حضور الفعاليات التعليمية: تحدد سياسة الحضور ومتى يعتمد الغياب وكيفيته ونسبته، ومتى يعد الطالب محروماً من المقرر
2.	الحضور المتأخر: يتم تحديد السياسة المتبعة في حالات تكرار تأخر الطالب عن حضور الفعاليات التعليمية

3.	<b>ضوابط الامتحان:</b> تحديد السياسات المتبعة في حالات الغياب عن الامتحان و توصيف السياسة المتبعة في حالات تأخر الطالب عن الامتحان.
4.	<b>التعيينات والمشاريع:</b> تحديد السياسات المتبعة في حالات تأخير تسليم التكاليف والمشاريع ومتى يجب أن تسلم إلى الأستاذ.
5.	<b>الغش:</b> تحدد هنا السياسات المتبعة في حالات الغش إما في الامتحانات أو في التكاليف بأي طريقة من طرائق الغش.
6.	<b>الانتحال:</b> يحدد تعريف الانتحال وحالاته والإجراءات المتبعة في حالة حدوثه.
7.	<b>سياسات أخرى:</b> أي سياسات أخرى مثل استخدام الموبايل أو مواعيد تسليم التكاليف ..... الخ

## X. المعلومات العامة عن المقرر:

14.	اسم المقرر:	ثقافة اسلامية				
15.	رمز المقرر ورقمه:					
16.	الساعات المعتمدة:	محاضرة	سمنار	عملي	تدريب	الإجمالي
		2				2
17.	المستوى والفصل الدراسي:					
18.	المتطلبات السابقة لدراسة المقرر(إن وجدت):					
19.	المتطلبات المصاحبة لدراسة المقرر(إن وجدت):					
20.	البرنامج/التي يتم فيها تدريس المقرر:					
21.	لغة تدريس المقرر:					
22.	نظام الدراسة:					
23.	أسلوب الدراسة في البرنامج:					
24.	مكان تدريس المقرر:					
25.	اسم معد مواصفات المقرر:					
26.	تاريخ اعتماد مجلس الكلية:					

## X. وصف المقرر:

صمم هذا المقرر لتزويد الطالب بالمعارف، والمهارات، والاتجاهات السلوكية، اللازمة في مجال الثقافة والأخلاقيات الإسلامية المهنية، والتي تمكنه من التحلي بأخلاقيات الإسلام، والصفات التي تميزه عن غيره - في هذا المجال- ، والابتعاد عن المفسدات، ومحاولة تعزيز الثوابت، وإزالة السلبيات..

## XI. مخرجات التعلم

ملخص للمعارف والمهارات التي سيقدمها المقرر:

- 1- تعريف الطلبة برأي الإسلام في بعض القضايا المعاصرة، وكيفية التعامل معها.
- 2- تمييز مبادئ الإسلام في تأسيس الأسرة واستمرارها
- 3- إكساب الطلبة بعض المفاهيم العامة للأخلاقيات الإسلامية، وأثرها في حياة الأفراد.
- 4- تثقيف أفراد المجتمع حول العادات السيئة والضارة التي ظهرت وانتشرت فيهم.
- 5- الإلمام بالقوانين الطبية واللوائح المنظمة للمهنة.
- 6- إدراك أهمية تجنب الأخطاء في المهنة وعقوبتها في الشرع والقانون.

## تسكين مخرجات التعلم

أولاً: تسكين مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التدريس والتقويم:

مخرجات المقرر / المعرفة والفهم	استراتيجية التدريس	استراتيجية التقويم
A1. يناقش مصادر الثقافة الإسلامية	المحاضرة المناقشة العصف الذهني	اسئلة مقالية اسئلة قصيرة اسئلة هادفة
A2. يشرح اركان العقيدة الاسلامية	المحاضرة المناقشة العصف الذهني	اسئلة مقالية اسئلة قصيرة اسئلة هادفة



اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A3 . يحدد مفهوم الأسرة وأهميتها، ومظاهر اهتمام الإسلام بالأسرة.
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A4 . يوضح واجبات الحاكم وحقوقه في النظام السياسي.
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A5 . يناقش الأخلاق ومكانتها في الإسلام.
		A6 . يحدد مصادر وأهمية أخلاقيات المهنة
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A7 يدرك الأحكام الشرعية والأخلاقية في بعض القضايا مثل الموت الرحيم . وعمليات التجميل
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A8 . يدرك رأي الإسلام حول بعض المشكلات المعاصرة، وكيفية التعامل معها.
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	A9 . يناقش مفهوم الشورى في الإسلام

ثانيا: تسكين مخرجات تعلم المقرر (المهارات الذهنية) باستراتيجية التدريس و التقويم:

استراتيجية التقويم	استراتيجية التدريس	مخرجات المقرر/ المهارات الذهنية
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	B1 . يفرق بين الثقافة والحضارة
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	B2 . يناقش أثر العقيدة على الفرد والمجتمع
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	B3 يناقش مبادئ الاسلام التي يجب ان تراعى عند الزواج
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	B4 ناقش نضرة الاسلام للصحة

ثالثا: تسكين مخرجات تعلم المقرر (المهارات المهنية والعملية) باستراتيجية التدريس والتقييم:

استراتيجية التقييم	استراتيجية التدريس	مخرجات المقرر/ المهارات المهنية والعملية
		لا ينطبق

رابعاً: تسكين مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقييم:

استراتيجية التقييم	استراتيجية التدريس	مخرجات المقرر
اسئلة مقالية اسئلة قصيرة اسئلة هادفة	المحاضرة المناقشة العصف الذهني	D1. يعتمد المفاهيم العامة للأخلاقيات الإسلامية، والاحكام الشرعية اثناء التعامل مع القضايا والمشكلات المعاصرة.

XI. تحديد وكتابة مواضع المقرر الرئيسية والفرعية (النظرية والعملية) وربطها بمخرجات التعلم المقصودة للمساق مع تحديد الساعات المعتمدة لها.

### كتابة وحدات /مواضيع محتوى المقرر

أولاً: الجانب النظري

الرقم	مخرجات تعلم المقرر	وحدات/ موضوعات المقرر	المواضيع التفصيلية	عدد الأسابيع	الساعات الفعلية
1	A1, B1	مقدمة: الثقافة والحضارة	<ul style="list-style-type: none"> <li>تعريف الثقافة – الثقافة الإسلامية</li> <li>تعريف الحضارة ومكوناتها، ومظاهرها</li> <li>الفرق بين الثقافة والحضارة</li> <li>مصادر الثقافة الإسلامية</li> <li>خصائص الثقافة الإسلامية.</li> </ul>	2	4
2	A2, B2	النظام العقائدي في الإسلام	<ul style="list-style-type: none"> <li>تعريف العقيدة</li> <li>أركان العقيدة الإسلامية</li> <li>أثر العقيدة على الفرد والمجتمع.</li> </ul>	1	2
3	A3, B3	النظام الاجتماعي في الإسلام	<ul style="list-style-type: none"> <li>تعريف النظام الاجتماعي</li> <li>تعريف الأسرة وأهميتها، ومظاهر اهتمام الإسلام بالأسرة</li> <li>مبادئ الإسلام في تأسيس الأسرة</li> </ul> <p>واستمرارها:</p> <p>مبادئ تراعى قبل الإقدام على - الزواج.</p> <ul style="list-style-type: none"> <li>مبادئ تراعى بعد الزواج -</li> <li>مبادئ تراعى عند حصول -</li> <li>زعزعة أو خلاف أسري.</li> </ul>	1	2
4	A4	النظام السياسي في الإسلام	<ul style="list-style-type: none"> <li>مفهوم النظام السياسي</li> <li>أسس النظام السياسي في الإسلام</li> <li>السيادة للشرع- السلطة للأمة -1</li> </ul>	1	2

		- للأمة حاكم واحد - الشورى واجبات الحاكم وحقوقه في - ▪ النظام السياسي.			
2	1	▪ تعريف الأخلاق ومكانتها في الإسلام. ▪ الأخلاق كما وردت في القرآن الكريم. ▪ الأخلاق كما وردت في السنة النبوية.	النظام الأخلاقي في الإسلام	A5	5
2	1	▪ مفهوم أخلاقيات المهنة ▪ مصادر وأهمية أخلاقيات المهنة ▪ تصنيف القيم الأخلاقية المهنية.	أخلاقيات المهنة	A6	6
2	1	امتحان نصفي	امتحان نصفي	A1, A2, A3, A4, A5, 7	7
2	1	▪ الإسلام والصحة ▪ الطب الوقائي في الإسلام.	هدي الإسلام في الصحة والحفاظ عليها	B4	8
4	2	▪ - الاجهاض - عمليات التجميل نقل الدم ▪ - زراعة الأعضاء - الاستنساخ ▪ وسائل منع الحمل.	أحكام شرعية وأخلاقية في بعض القضايا	A7, D1	9
2	1	▪ - تشريح الجثث - الموت الرحيم الدواء والصوم ▪ الأدوية والإدمان - التداوي ▪ بالأعشاب.	تابع أحكام شرعية	A7, D1	10
2	1	▪ سوء التغذية - انتشار الأمراض المعدية ▪ حكم وأثر ممارسة بعض العادات الضارة: □ المخدرات - المهدئات اللواط - العادة - السرية	بعض المشكلات المعاصرة وكيف عالجها الإسلام	A7, A8, D1	11
2	1	▪ الغزو الفكري - الشورى في الإسلام - حقوق الإنسان في الإسلام.	قضايا معاصرة	A9, D1	12
2	1	امتحان نهائي	الامتحان النهائي	A1, A2, A3, A4, A5, A6, A7, A8, A9, B1, B2, B3, B4, D1	13
32	16	إجمالي الأسابيع والساعات			

ثانياً: الجانب العملي:

تكتب تجارب (مواضيع) العملي				
الرقم	التجارب العملية	عدد الأسابيع	الساعات الفعلية	مخرجات التعلم
	لا ينطبق			
	إجمالي الأسابيع والساعات			

XIV. استراتيجيات التدريس:	
١. المحاضرة	
٢. المناقشة	
٣. العصف الذهني	
٤. مناقشة مجموعات صغيرة	
٥. تكاليف	

XV. التقييمات والتكاليف:				
الرقم	التكاليف/النشاط	مخرجات التعلم	الأسبوع	الدرجة
1	زراعة الاعضاء	A7,D1	6-8	2.5
2	الاستنساخ	A7,D1	7-10	2.5

XVI. جدولة طرق/ أدوات التقييم خلال الفصل الدراسي					
الرقم	طرق/ أدوات التقييم	الأسبوع	الدرجة	نسبة الدرجة إلى درجة التقييم النهائي	المخرجات التي يحققها
1	الحضور	15-1	5	%5	A1, A2, A3, A4, A5, A6, A7, A8, A9, B1, B2, B3
2	الواجبات	12-4	5	%5	A7, D1
3	اختبار منتصف الفصل	7	20	%20	A1, A2, A3, A4, A5, A6, B1, B2, B3
4	الاختبار النهائي	17-15	70	%70	A2, A3, A4, A5, B1, B2, C1
			100	%100	A1, A2, A3, A4, A5, A6, A7, A8, A9, B1, B2, B3, B4, D1

XVII. مصادر التعلم:	
(المؤلف، العام، العنوان، مكان النشر والناشر)	
المراجع الرئيسية: (لا تزيد عن مرجعين)	
١ - الثقافة الإسلامية للدكتور / عبد الحكيم بن عبد اللطيف السروري.	
٢ - أضواء على الثقافة الإسلامية د/ علي محمد الأهدل و د/ عبد الحكيم السروري.	
المراجع المساندة	
١ - الثقافة الإسلامية د/ عبد الغني حيدر.	
٢ - الموسوعة الفقهية الطبية د/ محمد أحمد كنعان.	
٣ - قانون الجرائم والعقوبات اليمني د/ علي حسن الشرفي	

الكتب والمراجع الاثرانية (الدوريات العلمية...الخ) (يرفق قائمة بذلك):
www.google.com
المصادر الإلكترونية ومواقع الإنترنت...الخ
مواد تعلم أخرى مثل البرامج التي تعتمد على الكمبيوتر أو الأقراص المضغوطة ... الخ

<b>XV. الضوابط والسياسات المتبعة في المقرر.</b>	
بعد الرجوع للوائح الجامعة يتم كتابة السياسة العامة للمساق فيما يتعلق بالآتي:	
8.	سياسة حضور الفعاليات التعليمية: تحدد سياسة الحضور ومتى يعتمد الغياب وكيفيته ونسبته، ومتى يعد الطالب محروماً من المقرر
9.	الحضور المتأخر: يتم تحديد السياسة المتبعة في حالات تكرار تأخر الطالب عن حضور الفعاليات التعليمية
10.	ضوابط الامتحان: تحديد السياسات المتبعة في حالات الغياب عن الامتحان و توصيف السياسة المتبعة في حالات تأخر الطالب عن الامتحان.
11.	التعيينات والمشاريع: تحديد السياسات المتبعة في حالات تأخير تسليم التكاليف والمشاريع ومتى يجب أن تسلم إلى الأستاذ.
12.	الغش: تحدد هنا السياسات المتبعة في حالات الغش إما في الامتحانات أو في التكاليف بأي طريقة من طرائق الغش.
13.	الانتحال: يحدد تعريف الانتحال وحالاته والإجراءات المتبعة في حالة حدوثه.

## Standard II: Course Identification and General Information:

1	Course Title:	English Language I				
2	Course Number & Code:					
3	Credit hours:	C.H				Total
		Th.	Pr.	Tut.	Tr.	
		2	NA	NA	NA	2
4	Study level/year at which this course is offered:					
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Name of faculty member responsible for the course:					
8	Program (s) in which the course is offered:					
9	Language of teaching the course:					
10	Location of teaching the course:					
11	Prepared By:					
12	Approved By:					

## Standard III: Course Description:

This course is designed especially for students of health sciences. It actually covers the four skills of a language: Reading, writing, listening, \ and speaking. The emphasis is, however, rather placed on reading and writing and terminology than on speaking and listening. The course deals primarily with the essential Grammar that are important for students in their health field studies such as (the passive, nouns, pronouns, adjectives and so on articles.

## Standard IV: Professional Information:

### Aims of The Course:

**Brief summary of the knowledge or skill the course is intended to develop:**

1. Grammatically correct English
2. Reading, writing, speaking and listening to English language.
3. Develop ability to read, understand and express meaningfully, the prescribed text.
4. Ability to communicate with other person.

### Intended learning outcomes (ILOs) of the course:

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Identify the structure of sentences and paragraphs	Lecture Discussion Demonstration Classroom conversation	Objective type Short answers Fill in the blanks Para Phrasing
A2. Describe the correct English grammar composition.	Lecture Discussion	Objective type Short answers

	Demonstration Classroom conversation	Fill in the blanks Para Phrasing
A3. Recognize precise writing and summarizing	Lecture Discussion Demonstration Classroom conversation	Objective type Short answers Fill in the blanks Para Phrasing
A4. Describe the composition of letter	Lecture Discussion Demonstration Classroom conversation	Objective type Short answers Fill in the blanks Para Phrasing
A5. Discuss structures of telephone conversion	Lecture Discussion Demonstration Classroom conversation	Objective type Short answers Fill in the blanks Para Phrasing

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Develop ability to read, understand and express meaningfully, the prescribed English text.	Lecture Discussion Exercise on: Reading & Summarizing	Short Answers Essay type.
B2. Differentiate between formal and informal letters	Exercise on: Writing & Summarizing	Short Answers Essay type.

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
C1. Perform reading, writing, and speaking English correctly	Lecture Discussion Class-room Conversation Assignments Exercise on: Reading & writing	Short Answers Objective questions Practice
C2. Practice listening to audio, and video materials	Lecture Discussion Class-room Conversation Exercise on listening	Short Answers Objective questions Practice

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
D1. Use correct words and structure	Exercise on Debating	Assessment of the skills

to communicate with other person.

Participating in Seminar

based on the checklist

## v: Course Content:

### 1 – Course Topics/Items:

#### a – Theoretical Aspect:

Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Applied Grammar	Correct usage: <ul style="list-style-type: none"> <li>▪ The structure of sentences</li> <li>▪ The structure of paragraphs</li> <li>▪ Enlargements of Vocabulary               <ul style="list-style-type: none"> <li>▪ Phonetics</li> </ul> </li> </ul>	4	8	
2	Reading and comprehension	<ul style="list-style-type: none"> <li>▪ Review of selected materials and express oneself in one's words.               <ul style="list-style-type: none"> <li>▪ Enlargement of Vocabulary.</li> </ul> </li> </ul>	6	12	
3	Written Composition	<ul style="list-style-type: none"> <li>▪ Precise writing and summarizing</li> <li>▪ Writing of bibliography</li> <li>▪ Enlargement of Vocabulary</li> </ul>	4	8	
4	Midterm Exam	Midterm Exam	2	4	
5	Various forms of composition	<ul style="list-style-type: none"> <li>▪ The study of various forms of composition               <ul style="list-style-type: none"> <li>✓ Paragraph,</li> <li>✓ Essay,</li> <li>✓ Letter,</li> <li>✓ Summary,</li> <li>✓ Practice in writing</li> </ul> </li> </ul>	4	8	
6	Spoken English	<ul style="list-style-type: none"> <li>▪ Medical report</li> <li>▪ Oral report</li> <li>▪ Discussion &amp; Summarization</li> <li>▪ Debate               <ul style="list-style-type: none"> <li>▪ Telephonic conversion</li> </ul> </li> </ul>	4	8	
7	Listening Comprehension	<ul style="list-style-type: none"> <li>▪ Media, audio, video, speeches etc.</li> </ul>	4	8	
8	<b>Final Term Exam</b>		2	4	



**Number of Weeks /and Units Per Semester****30****60****V. Teaching strategies of the course**

1. Lecture Discussion
2. Demonstrate use of dictionary grammar
3. Class-room Conversation
4. Exercise on use of Grammar
5. Exercise on: Reading, writing, speaking and listening

**VI. Assignments**

No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
<b>1</b>	Letter writing		<b>4-10</b>	<b>5</b>
<b>2</b>	Medical reports.		<b>8-12</b>	<b>5</b>

**VII. Schedule of Assessment Tasks for Students During the Semester**

No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
<b>1</b>	Attendance and activities	15 <sup>th</sup> week	<b>5</b>	<b>5%</b>	
<b>2</b>	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	<b>5</b>	<b>5%</b>	
<b>3</b>	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	<b>20</b>	<b>20%</b>	
<b>4</b>	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	<b>70</b>	<b>70%</b>	
	Number of Weeks /and Units Per Semester		<b>100</b>	<b>100%</b>	

**vii: Learning Resources:****1. Required Textbook(s) ( maximum two ).**

1. Oxford English for careers (2009). Nursing.
2. Quirk, Randolph and Jreenbaum Sidney(1987). A University Grammar of English, Hong Kong: Longman group (FE) Ltd.

**1. Essential References.**

1. Thomson A. J. and Maitüiet A. V. (1987). A licticl English Grammar, Delhi:

- Oxford University Press.
2. Gimson A. E. (1986). An Introduction to pronunciation of English. Hong kong: Wing King Tong Ca. Ltd.
  3. O' Connor J. D, (1986). Better English h'onuwiation. Cambridge:University Press.

## 2. **Electronic Materials and Web Sites *etc.***

1. WWW.encontinouear.com
2. Http: // www.google. Com

### IX. Course Policies:

<b>1</b>	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
<b>2</b>	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
<b>3</b>	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
<b>4</b>	Assignments &Projects: Assignments and projects will be assessed individually unless the teacher request for group work
<b>5</b>	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
<b>6</b>	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

**Standard II: Course Identification and General Information:**

1	<b>Course Title:</b>	Introduction to Computer				
2	<b>Course Number &amp; Code:</b>					
3	<b>Credit hours:</b>	<b>C.H</b>				<b>Total</b>
		<b>Th.</b>	<b>Pr.</b>	<b>Tut.</b>	<b>Tr.</b>	
		<b>1</b>	<b>2</b>	<b>NA</b>	<b>NA</b>	<b>3</b>
4	<b>Study level/year at which this course is offered:</b>					
5	<b>Pre –requisite (if any):</b>					
6	<b>Co –requisite (if any):</b>					
7	<b>Name of faculty member responsible for the course:</b>					
8	<b>Program (s) in which the course is offered:</b>					
9	<b>Language of teaching the course:</b>					
10	<b>Location of teaching the course:</b>					
11	<b>Prepared By:</b>					
12	<b>Approved By:</b>					

**Standard III: Course Description:**

This course is designed for students to develop basic understanding of uses of computer and its applications in health care.

**Standard IV: Professional Information:****Aims of The Course:****Brief summary of the knowledge or skill the course is intended to develop:**

1. Discuss various concepts used in computer and the disk operating system.
2. Recognize features of computer aided teaching and testing.
3. Uses operating system, MS Office, multi-media, internet and Email.
4. Describe the use of hospital management system.

**Intended learning outcomes (ILOs) of the course:**

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Recognize various concepts used in computer	Lecture Discussion Demonstration	Short answers Objective type Essay
A2. Identify application of computer in medicine	Lecture Discussion Demonstration	Short answers Objective type Essay
A3. Describe the disk operating system	Lecture Discussion Demonstration	Short answers Objective type Essay

A4. Discuss uses of internet and Email	Lecture Discussion Demonstration	Short answers Objective type Essay
A5. Describe and use the statistical packages	Lecture Discussion Demonstration	Short answers Objective type Essay
A6. Describe the use of Hospital Management System	Lecture Discussion Demonstration	Short answers Objective type Essay

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Discuss aided teaching and testing in computers	Lecture Discussion Demonstration Brain storming.	Short answers Objective type Essay
B2, Compare between two statistical packages features	Lecture Discussion Demonstration Brain storming.	Short answers Objective type Essay

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
C1. Demonstrate skill in the use of MS Office	Lecture - Discussion Demonstration Group discussion	Short answers Objective type Practical Exam
C2. Demonstrate skill in using multi-media	Lecture - Discussion Demonstration Group discussion	Short answers Objective type Practical Exam
C3. Demonstrate use of internet and Email	Lecture - Discussion Demonstration Group discussion	Short answers Objective type Practical Exam
C4. Demonstrate use of hospital management system	Lecture - Discussion Demonstration Group discussion	Short answers Objective type Practical Exam

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:
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Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
D1. Describe the use of hospital management system.	Lecture Discussion Demonstration Practice Session	Short answer questions Objective type Practical Exam

## v: Course Content:

### 1 – Course Topics/Items:

#### a – Theoretical Aspect:

Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Introduction	<ul style="list-style-type: none"> <li>▪ Introduction to computers</li> <li>▪ Hardware and software;</li> <li>▪ trends and technology</li> <li>▪ Application of computers in medicine and health care</li> </ul>	2	4	A1, A2
2	Introduction to disk- operating system DOS	<ul style="list-style-type: none"> <li>▪ Introduction</li> <li>▪ Windows (all version</li> <li>▪ Introduction to Microsoft word (MS-Word)</li> <li>▪ MS-Excel with pictorial presentation</li> <li>▪ MS-Access               <ul style="list-style-type: none"> <li>▪ MS-Power point</li> </ul> </li> </ul>	4	8	A3, C1
3	Multimedia	<ul style="list-style-type: none"> <li>□ Types &amp; uses</li> <li>□ Computer aided teaching &amp; testing</li> </ul>	2	4	B1, C2
4	Midterm exam	Midterm exam	1	2	A1, A2, A3, B1, C1, C2
5	Internet & E-mail	Use of Internet and: e-mail	2	4	A4, C3
6	Statistical packages	Statistical packages: types and their features	2	4	A5, B2
7	Oxygenation	<ul style="list-style-type: none"> <li>□ Physiology of (ventilation, circulation &amp; oxygenation)</li> <li>□ Factors Affecting Oxygenation</li> <li>□ Alterations in oxygenation</li> <li>□ Oxygen therapy</li> <li>□ Maintenance of patent</li> </ul>	1	2	A4, B5

		airway <input type="checkbox"/> Oxygen administration <input type="checkbox"/> Suction <input type="checkbox"/> Inhalations: dry and moist <input type="checkbox"/> Chest physiotherapy <input type="checkbox"/> Care of Chest drainage <input type="checkbox"/> Pulse oximetry			
8	Hospital Management System	<input type="checkbox"/> Types <input type="checkbox"/> Uses	1	2	A6, C4, D1
9	Final exam	Final exam	1	2	A1, A2, A3, A4, A5, A6, B1, B2, C1, C2, C3, C4, D1
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

<b>B – Practical Aspect:</b>				
Order	Task/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Use of MS Office	6	12	C1
2	Use multi-media	2	4	C2
3	Use of internet and Email	2	4	C3
4	Use of hospital management system	2	4	C4
<b>Number of Weeks /and Units Per Semester</b>		<b>12</b>	<b>24</b>	

V. Teaching strategies of the course
1. Lecture - Discussion 2. Demonstration 3. Brainstorming 4. Case discussions / Seminar

VI. Assignments				
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark

1	Application of computers in health care Write records of patient Simulated - Actual	A1, A2, B1, B2, C1, C2	2-10	5
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VII. Schedule of Assessment Tasks for Students During the Semester					
No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
1	Attendance and activities	15 <sup>th</sup> week	5	5%	A1, A2, A3, A4, A5, A6, B1, B2, C1, C2, C3
2	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	5	5%	A1, A2, B1, B2, C1, C2
3	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	20	20%	A1, A2, A3, B1, C1, C2
4	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	70	70%	A1, A2, A3, A4, A5, A6, B1, B2, C1, C2, C3, C4, D1

## VII: Learning Resources:

### 1. Required Textbook(s) ( maximum two ).

1. N.K. Anand & Shikha Goel (2009). Computers for Nurses, A.I.T.B.S. Publishers ,India.

### 2. Essential References.

2. Thacker N (2009). Computers for Nurses, India.

### 3. Electronic Materials and Web Sites etc.

1. www.google.com  
2. www.yahoo.com

## IX. Course Policies:

1	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## I. Course Identification and General Information:

1	Course Title:	Medical Terminology			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

Medical Terminology is designed to prepare the students to pronounce, define, analyze and comprehend the medical language. It introduces them to the vocabulary, abbreviations, and symbols used in health care settings. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots.

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:



a1	Identify the basic structure of medical words, including prefixes, suffixes, roots, combining forms, and plurals.		
a2	Identify the rules of building medical terms and a connection between the term and its relationship to body systems.		
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1	Construct medical terms correctly using the rules of combining suffixes, prefixes, and word roots.		
b2	Analyze medical terms into their defining parts and meanings as relevant to body systems and functions.		
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1	Use medical terms properly to report health problems, diagnosis, procedures and treatment.		
c2	Write terms for selected structures of the body systems, matching them with their descriptions.		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d1	Display high degree of personal commitment, self-developing and cooperation with his colleagues.		
d2	Demonstrate analytical, communicative and professional skills related to his area of interest.		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Identify the basic structure of medical words, including prefixes, suffixes, roots, combining forms, and plurals.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

a2	Identify the rules of building medical terms and a connection between the term and its relationship to body systems.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
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Demonstrate analytical, communicative and professional skills related to his area of interest.

		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
b1	Construct medical terms correctly using the rules of combining suffixes, prefixes, and word roots.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Analyze medical terms into their defining parts and meanings as relevant to body systems and functions.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
c1	Use medical terms properly to report health problems, diagnosis, procedures and treatment.	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Write terms for selected structures of the body systems, matching them with their descriptions.	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d1	Display high degree of personal commitment, self-developing and cooperation with his colleagues.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

d2	Demonstrate analytical, communicative and professional skills related to his area of interest.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
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## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Introduction</b>	<ul style="list-style-type: none"> <li>– Course objectives and design</li> <li>– What is medical terminology?</li> <li>– Features of a medical term</li> <li>– Parts of a medical term</li> </ul>	1	2	a1, a2, b2, c1,
2	<b>Formation of Medical Term</b>	<ul style="list-style-type: none"> <li>– Formation of a medical term</li> <li>– Pronunciation and pluralizing rules</li> <li>– Defining a medical term</li> </ul>	1	2	a1, a2, b2, c1,
3	<b>Suffixes</b>	<ul style="list-style-type: none"> <li>– Rules for linking suffixes</li> <li>– Types of suffixes               <ul style="list-style-type: none"> <li>- Surgical</li> <li>- Diagnostic</li> <li>- Pathological</li> <li>- Grammatical</li> <li>- Learning activities</li> </ul> </li> </ul>	1	2	a1, a2, b2, c1, d1
4	<b>Prefixes</b>	<ul style="list-style-type: none"> <li>– Features of prefixes</li> <li>– Rules for linking prefixes</li> <li>– Types of prefixes               <ul style="list-style-type: none"> <li>- Prefixes of position</li> <li>- Prefixes of number</li> <li>- Prefixes of measurement</li> <li>- Prefixes of direction</li> <li>- Prefixes of color</li> <li>- Prefixes of time</li> <li>- Prefixes of size and comparison</li> <li>- Prefixes of negation</li> <li>- Other common prefixes</li> </ul> </li> </ul>	1	2	a1, a2, b2, c1, d1

		- Learning activities			
5	<b>Body Structure</b>	<ul style="list-style-type: none"> <li>- Levels of Organization and related terms</li> <li>- Anatomical Position</li> <li>- Planes of the Body</li> <li>- Body Cavities</li> <li>- Abdominopelvic Divisions</li> <li>- Quadrants</li> <li>- Regions</li> </ul>	1	2	a2, b1, c2, d2
6	<b>Body Structure</b>	<ul style="list-style-type: none"> <li>- Directional Terms</li> <li>- Pathology Diagnostic, Symptomatic, and Related Terms,</li> <li>- Diagnostic and Therapeutic Procedures</li> <li>- Abbreviations</li> <li>- Learning Activities</li> <li>- Medical Record Activities</li> </ul>	1	2	a2, b1, c2, d2
7	<b>Digestive System</b>	<ul style="list-style-type: none"> <li>- Anatomy and Physiology Key terms</li> <li>- Pathological and Diagnostic Terms</li> <li>- Surgical and Therapeutic Terms</li> <li>- Learning Activities</li> <li>- Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2
8	<b>Mid-Term Theoretical Exam</b>	- Mid-Term Theoretical written Exam	1	2	a1, a2, b1, b2, c1, c2, d1, d2
9	<b>Musculoskeletal System</b>	<ul style="list-style-type: none"> <li>- Anatomy and Physiology Key terms</li> <li>- Pathological and Diagnostic Terms</li> <li>- Surgical and Therapeutic Terms</li> <li>- Learning Activities</li> <li>- Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2
10	<b>Cardiovascular System</b>	<ul style="list-style-type: none"> <li>- Anatomy and Physiology Key terms</li> <li>- Pathological and Diagnostic Terms</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2

		<ul style="list-style-type: none"> <li>– Surgical and Therapeutic Terms</li> <li>– Learning Activities</li> <li>– Case study Reports</li> </ul>			
11	<b>Nervous System</b>	<ul style="list-style-type: none"> <li>– Anatomy and Physiology Key terms</li> <li>– Pathological and Diagnostic Terms</li> <li>– Surgical and Therapeutic Terms</li> <li>– Learning Activities</li> <li>– Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2
12	<b>Integumentary System</b>	<ul style="list-style-type: none"> <li>– Anatomy and Physiology Key terms</li> <li>– Pathological and Diagnostic Terms</li> <li>– Surgical and Therapeutic Terms</li> <li>– Learning Activities</li> <li>Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2
13	<b>Reproductive System</b>	<ul style="list-style-type: none"> <li>– Anatomy and Physiology Key terms</li> <li>– Pathological and Diagnostic Terms</li> <li>– Surgical and Therapeutic Terms</li> <li>– Learning Activities</li> <li>Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2
14	<b>Respiratory System</b>	<ul style="list-style-type: none"> <li>– Anatomy and Physiology Key Terms</li> <li>– Pathological and Diagnostic Terms</li> <li>– Surgical and Therapeutic Terms</li> <li>– Learning Activities</li> <li>Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2
15	<b>Urinary System</b>	<ul style="list-style-type: none"> <li>– Anatomy and Physiology Key Terms</li> <li>– Pathological and Diagnostic Terms</li> <li>– Surgical and Therapeutic Terms</li> <li>– Learning Activities</li> <li>Case study Reports</li> </ul>	1	2	a2, b1, b2, c1, c2, d1, d2

16	<b>Final Theoretical Exam</b>	Final Theoretical Exam Written	1	2	a1, a2, b1, b2, c1, c2, d1, d2
<b>Number of Weeks /and Units Per Semester</b>					

### V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	<b>Assignment 1:</b> Students are asked to finish "Identify and Define" work sheet handed to them. The work sheet is designed to check students' mastery of constructing and analyzing medical terms.	W5	5	a1, c1
2	<b>Assignment 2:</b> Read the case study reports and complete the charts given below. This is intended to check students comprehending faculties to communicate about a given health problem and procedures.	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion	Aligned Course Learning
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				of Final Assessment	Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

- Fremgen, Bonnie F. and Frucht, Suzanne S., 2017, *Medical Terminology: A Living Language: 78<sup>th</sup> edition*, New York, Pearson.
- Gylys, Barbara A. and Wedding, Mary Ellen. 2009, *Medical Terminology Systems: A Body Systems Approach, 6<sup>th</sup> edition*, Philadelphia, F. A. Davis Company.

### 2- Essential References:

- C. Leonard, Peggy, 2014. *Quick & Easy Medical Terminology*, 7th edition, Elsevier.
- Chabner, Davi-Ellen, 1991, *Medical Terminology: A Short Course*, 6<sup>th</sup> edition, Missouri, Saunders Elsevier Inc.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary
  1. <http://www.openmd.com>
  2. <http://www.medicinenet.com> Medtems Medical Dictionary AZ list
  3. <http://www.medic8.com/MedicalDictionary.htm>. Enter a medical term; then click on "Search" to see its definition.
- Web site providing information on health care issues, medical treatments, medications, etc.
  4. <http://www.medbroadcast.com>
- An interactive human anatomy site
  - 1- [www.innerbody.com](http://www.innerbody.com). When you click on a system, be sure to scroll down to see other links and animations.

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

### Class Attendance:

- 1 Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.

2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.



## I. Course Identification and General Information:

1	Course Title:	Anatomy & Physiology1			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Field	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

The course of human anatomy and physiology is designed to prepare the students with an understanding of the structural basis of the human body both at gross and microscopic levels. The course also provides an overview of the cells, the fluids and electrolytes, and acid–base balance. It includes also the laboratory period deals with the integumentary system, the musculoskeletal system, the head, neck, the spine and thorax).

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

**B. Knowledge and Understanding:** Upon successful completion of the course, students will be able to:

a1	Recognize the structure and function of the normal cell, fluids and electrolytes and acid–base balance and pH	A1	
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a2	Describe the anatomical significance with the physiological functions and with the clinical conditions of the integumentary system, the musculoskeletal system, the head, neck, the spine and thorax).	A3	
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1	Differentiate between epithelial tissue, connective tissue, muscle tissue, and nervous tissue	B2	
b2	Explain the surface markings of clinically important structures	B3	
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1	Demonstration of morphology of human body on anatomical models	C1	
c2	List the anatomic structures of the special senses, the functions of the anatomic structures of each sense and how the structures of the senses interrelate to perform their specialized functions	C2	
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	D1	
d2	Use the ethical and professional standards in emergency care services	D3	

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<u>Course Intended Learning Outcomes</u>		Teaching Strategies	Assessment Strategies
a1	Recognize the structure and function of the normal cell, fluids and electrolytes and acid–base balance and pH	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Describe the anatomical significance with the physiological functions and with the clinical conditions of the integumentary system, the musculoskeletal system, the head, neck, the spine and thorax).	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Differentiate between epithelial tissue, connective tissue, muscle tissue, and nervous tissue	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Explain the surface markings of clinically important structures	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Demonstration of morphology of human body on anatomical models	<ul style="list-style-type: none"> <li>▪ Case-Based Learning</li> <li>▪ Clinical teaching &amp; learning</li> <li>▪ Laboratory work</li> <li>▪ Role plays &amp; simulation</li> <li>▪ Small group discussion</li> <li>▪ Seminar (Discussions)</li> <li>▪ Practice session</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Practical/Clinical examination</li> <li>▪ Reports (Lab Reports.)</li> <li>▪ Lab work</li> <li>▪ Assessment of skills with checklist</li> </ul>
c2	List the anatomic structures of the special senses, the functions of the anatomic structures of each sense and how the structures of the senses interrelate to perform their specialized functions	<ul style="list-style-type: none"> <li>▪ Case-Based Learning</li> <li>▪ Clinical teaching &amp; learning</li> <li>▪ Laboratory work</li> <li>▪ Role plays &amp; simulation</li> <li>▪ Small group discussion</li> <li>▪ Seminar (Discussions)</li> <li>▪ Practice session</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Practical/Clinical examination</li> <li>▪ Reports (Lab Reports.)</li> <li>▪ Lab work</li> <li>▪ Assessment of skills with checklist</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Communicate with the patient and his family effectively in professional	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

	manner using the principles of communication techniques	<ul style="list-style-type: none"> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	
d2	Use the ethical and professional standards in emergency care services	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>The cell and the cellular environment</b>	<ul style="list-style-type: none"> <li>▪ <b>Introduction</b></li> <li>▪ <b>The cell and the cellular environment</b> <ul style="list-style-type: none"> <li>○ The normal cell               <ul style="list-style-type: none"> <li>✓ Cell structure                   <ul style="list-style-type: none"> <li>• The cell membrane</li> <li>• The cytoplasm</li> <li>• The organelles</li> </ul> </li> </ul> </li> <li>○ Cell function</li> <li>○ Tissues</li> <li>○ Organs, organ systems, and the organism</li> <li>○ System integration</li> </ul> </li> </ul>	2	4	a1, b1
2	<b>The cellular environment: fluids and electrolytes</b>	<ul style="list-style-type: none"> <li>▪ <b>The cellular environment: fluids and electrolytes</b> <ul style="list-style-type: none"> <li>○ Water               <ul style="list-style-type: none"> <li>✓ Hydration</li> </ul> </li> <li>○ Electrolytes</li> <li>○ Osmosis and diffusion               <ul style="list-style-type: none"> <li>✓ Water movement between intracellular and extracellular compartments</li> </ul> </li> <li>○ Water movement between intravascular and interstitial compartments</li> </ul> </li> </ul>	2	4	a1
3	<b>Acid–base balance</b>	<ul style="list-style-type: none"> <li>▪ <b>Acid–base balance</b> <ul style="list-style-type: none"> <li>○ The ph scale</li> <li>○ Bodily regulation of acid–base balance</li> </ul> </li> </ul>	1	2	a1
4	<b>Body systems</b>	<ul style="list-style-type: none"> <li>▪ <b>The integumentary system</b> <ul style="list-style-type: none"> <li>○ <b>The skin</b> <ul style="list-style-type: none"> <li>✓ Epidermis</li> <li>✓ Dermis</li> <li>✓ Subcutaneous tissue</li> </ul> </li> </ul> </li> </ul>	2	4	a1, b1, c1, d1

		<ul style="list-style-type: none"> <li>○ The hair</li> <li>○ The nails</li> <li>▪ <b>The blood</b> <ul style="list-style-type: none"> <li>○ Components of blood <ul style="list-style-type: none"> <li>✓ Plasma</li> <li>✓ Red blood cells</li> <li>✓ White blood cells</li> <li>✓ Platelets</li> </ul> </li> <li>○ Hemostasis</li> </ul> </li> </ul>			
5	<b>Midterm exam</b>	<b>Midterm exam</b>	1	2	a1, b1, c1, d1
6	<b>The musculoskeletal system</b>	<ul style="list-style-type: none"> <li>▪ <b>The musculoskeletal system</b> <ul style="list-style-type: none"> <li>○ <b>Skeletal tissue and structure</b> <ul style="list-style-type: none"> <li>✓ Bone structure <ul style="list-style-type: none"> <li>• The diaphysis</li> <li>• The epiphysis</li> <li>• The metaphysis</li> <li>• The medullary canal</li> <li>• The periosteum</li> <li>• Cartilage</li> </ul> </li> <li>✓ Joint structure <ul style="list-style-type: none"> <li>• Types of joints</li> <li>• Ligaments</li> <li>• Joint capsule</li> </ul> </li> </ul> </li> <li>○ <b>Skeletal organization</b> <ul style="list-style-type: none"> <li>✓ The extremities <ul style="list-style-type: none"> <li>• Wrists and hands</li> <li>• Elbows</li> <li>• Shoulders</li> <li>• Ankles and feet</li> <li>• Knees</li> <li>• Hips and pelvis</li> </ul> </li> </ul> </li> <li>○ <b>Bone aging</b></li> <li>○ <b>Muscular tissue &amp; structure</b> <ul style="list-style-type: none"> <li>✓ Definition</li> <li>✓ Type of muscles movement.</li> <li>✓ Muscles of abdominal wall</li> <li>✓ Muscles of respiration</li> <li>✓ Pelvic diaphragm</li> </ul> </li> </ul> </li> </ul>	3	6	a2, b1, b2, c2, d2
7	<b>The head, face, and neck</b>	<ul style="list-style-type: none"> <li>▪ <b>The head, face, and neck</b> <ul style="list-style-type: none"> <li>○ <b>The head</b> <ul style="list-style-type: none"> <li>✓ The scalp</li> <li>✓ The cranium</li> <li>✓ The meninges</li> <li>✓ Cerebrospinal fluid</li> <li>✓ The brain</li> <li>✓ CNS circulation</li> <li>✓ Blood–brain barrier</li> <li>✓ Cerebral perfusion pressure</li> <li>✓ Cranial nerves</li> </ul> </li> </ul> </li> </ul>	2	4	a2, b2, c2, d2

		<ul style="list-style-type: none"> <li>✓ Ascending reticular activating system</li> <li>○ <b>The face</b> <ul style="list-style-type: none"> <li>✓ The ear</li> <li>✓ The eye</li> <li>✓ The mouth</li> </ul> </li> <li>○ <b>The neck</b> <ul style="list-style-type: none"> <li>✓ Vasculature of the neck</li> <li>✓ Airway structures</li> <li>✓ Other structures of the neck</li> </ul> </li> </ul>			
8	<b>The spine and thorax</b>	<ul style="list-style-type: none"> <li>▪ <b>The spine and thorax</b> <ul style="list-style-type: none"> <li>○ The spine <ul style="list-style-type: none"> <li>✓ The vertebral column</li> <li>✓ Divisions of the vertebral column</li> </ul> </li> <li>○ The spinal meninges</li> <li>○ The thorax <ul style="list-style-type: none"> <li>✓ The thoracic cage</li> <li>✓ The diaphragm</li> <li>✓ Associated musculature</li> <li>✓ Trachea, bronchi, and lungs</li> <li>✓ Mediastinum and heart</li> <li>✓ Great vessels</li> <li>✓ Esophagus</li> </ul> </li> </ul> </li> </ul>	2	4	a2, c2, d2
9	<b>Final exam</b>	<b>Final exam</b>	<b>1</b>	<b>2</b>	a2, b1, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Body Cells</b> <ul style="list-style-type: none"> <li>• Cell &amp; Tissues</li> </ul>	2	4	<b>c1</b>
2	<b>Integumentary system</b> <ul style="list-style-type: none"> <li>• Demonstration of the skin</li> <li>• Demonstration of the Epidermis</li> <li>• Demonstration of the Subcutaneous tissue</li> </ul>	2	4	<b>c1</b>
3	<b>The musculoskeletal system</b> <ul style="list-style-type: none"> <li>• Human skeleton, Muscular system and Joints</li> </ul>	2	4	<b>c1</b>
4	<b>Midterm exam</b>	1	2	<b>c1</b>
5	<b>The head, and neck</b> <ul style="list-style-type: none"> <li>• Demonstration of skull, maxilla, and mandible</li> </ul>	2	4	<b>c1</b>
6	<b>The spine and thorax</b> <ul style="list-style-type: none"> <li>• Demonstration of vertebral column</li> <li>• Demonstration of rib cage</li> <li>• Demonstration of the heart</li> <li>• Demonstration of the lungs</li> </ul>	2	4	<b>c2</b>

7	<b>Sensory organs</b> • Demonstration of the eyes, ears, nose & tongue	2	4	<b>c2</b>
8	<b>Final exam</b>	1	2	<b>c2</b>
<b>Number of Weeks /and Units Per Semester</b>				

### V. Teaching Strategies of the Course:

1. Interactive lecture
2. Seminars and student presentations
3. Brain storming
4. Role-play and simulation
5. Small group discussion
6. Learning tasks and activities
7. Problems solving
8. Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	<b>Assignment 1:</b> Regulation of body fluid	W5	5	a1, b1
2	<b>Assignment 2:</b> Type of joints	W11	5	a2, b2,
<b>Total</b>			<b>10</b>	

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2

<b>Total</b>	<b>100</b>	<b>100%</b>	
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## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

1. Heylings D., Leinster S., Carmichael S., Saada J., Logan B., and Hutchings R., (2018). McMinn's Concise Human Anatomy. 2<sup>nd</sup> Ed.; Taylor & Francis Group, LLC
2. Jones S., (2017). Pocket Anatomy & Physiology. 3<sup>rd</sup> Ed. F. A. Davis Company, Philadelphia
3. Bledsoe B., Porter, R., & Cherry, R., (2014). Pearson New International Edition, Essentials of Paramedic Care Update, 2<sup>nd</sup> Ed., Pearson Education Limited

### 2- Essential References:

1. Sanders, M., & McKenna k., Tan, D., Pollak A., and Mejia A., (2019). Sanders' Paramedic Textbook 5<sup>th</sup> Ed., USA.
2. LaPres J., Kersten ., and Tang Y., (2016). Gunstream's Anatomy & Physiology With Integrated Study Guide. 6<sup>th</sup> Ed. McGraw-Hill

### 3- Electronic Materials and Web Sites etc.:

**Websites:**

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي

<b>1</b>	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
<b>2</b>	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
<b>3</b>	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
<b>4</b>	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
<b>5</b>	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
<b>6</b>	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>



<b>I. Course Identification and General Information:</b>					
1	Course Title:	Fundamental of Nursing I			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Field	
		2	2	--	2
4	Study Level/ Semester at which this Course is offered:	3\2			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

<b>II. Course Description:</b>
In this course the student will acquire basic concepts and principles of fundamental skills of nursing and apply various nursing measures into practice. Introduce students to nursing, nursing education, health care delivery system, nursing process, health assessment and vital signs. It will cover also safety protection, asepsis, hygiene, activity and exercise

<b>III. Course Intended Learning Outcomes (CILOs) :</b> (مخرجات تعلم المقرر)	<b>Referenced PILOs</b> (مخرجات تعلم البرنامج)
<b>C. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:	
a1 Describes nursing education, health care delivery system, nursing process, health assessment and vital signs.	A1

a2	Recognize the principle of safety protection, asepsis, hygiene, activity and exercise	A3	
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1	Analyze the concept of health, illness and factors affecting them and health care agencies	B2	
b2	Synthesize assessment, plan, implement and evaluate the care for meeting patients' needs as safety, hygiene, activity and exercise	B3	
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1	Perform health assessment and vital signs for the patients using nursing process	C1	
c2	Performs infection control procedures and safety protection for all patients	C2	
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d1	Employ effective communication and accurate documentation while providing and/or managing for client needs.	D1	
d2	Engage in educational activities related to professional issues	D3	

<b>(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Describes nursing education, health care delivery system, nursing process, health assessment and vital signs.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Recognize the principle of safety protection, asepsis, hygiene, activity and exercise	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>

b1	Analyze the concept of health, illness and factors affecting them and health care agencies	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Synthesize assessment, plan, implement and evaluate the care for meeting patients' needs as safety, hygiene, activity and exercise	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Perform health assessment and vital signs for the patients using nursing process	<ul style="list-style-type: none"> <li>▪ Case-Based Learning</li> <li>▪ Clinical teaching &amp; learning</li> <li>▪ Laboratory work</li> <li>▪ Role plays &amp; simulation</li> <li>▪ Small group discussion</li> <li>▪ Seminar (Discussions)</li> <li>▪ Practice session</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Practical/Clinical examination</li> <li>▪ Reports (Lab Reports.)</li> <li>▪ Lab work</li> <li>▪ Assessment of skills with checklist</li> </ul>
c2	Apply infection control procedures and safety protection for all patients	<ul style="list-style-type: none"> <li>▪ Case-Based Learning</li> <li>▪ Clinical teaching &amp; learning</li> <li>▪ Laboratory work</li> <li>▪ Role plays &amp; simulation</li> <li>▪ Small group discussion</li> <li>▪ Seminar (Discussions)</li> <li>▪ Practice session</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Practical/Clinical examination</li> <li>▪ Reports (Lab Reports.)</li> <li>▪ Lab work</li> <li>▪ Assessment of skills with checklist</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Employ effective communication and accurate documentation while providing and/or managing for client needs.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Engage in educational activities related to professional issues	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Learning activities</li> </ul>
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## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction to nursing	<ul style="list-style-type: none"> <li>▪ Definition of nursing, client environment and other related concepts.</li> <li>▪ Nursing in early civilization</li> <li>▪ Nursing today</li> <li>▪ Present and old roles</li> <li>▪ The health-illness continuum</li> <li>▪ Variables influencing health.</li> <li>▪ Nursing organizations (ICN and Yemeni Joint for Nurses and Midwives YJNMC).</li> </ul>	2	4	a1, d1
		<ul style="list-style-type: none"> <li>▪ Admission and discharge reporting and recording referral</li> </ul>	1	2	a1, d1
2	Nursing Education	<ul style="list-style-type: none"> <li>▪ History background</li> <li>▪ Levels of nursing education</li> <li>▪ Professionalism.</li> <li>▪ Nursing position in the occupation continuum</li> </ul>	1	2	a1, d1
3	Health care delivery system	<ul style="list-style-type: none"> <li>▪ Health care institutions.</li> <li>▪ Health care teams.</li> <li>▪ Methods of assigning nursing activities.</li> <li>▪ Nurse's roles in institutions and in the community.</li> </ul>	1	2	a1, b1, d1
4	Nursing process.	<ul style="list-style-type: none"> <li>▪ Overview of the nursing process.</li> <li>▪ Characteristics of nursing process.               <ul style="list-style-type: none"> <li>A) Assessment.</li> <li>B) Diagnosis: -</li> <li>C) Planning (setting goal, expected outcomes)</li> <li>D) Implementation</li> <li>E) Evaluation</li> </ul> </li> </ul>	2	4	a1, c1, d1
5	Health assessment	<p><b><u>A. Body Health Assessment.</u></b></p> <ul style="list-style-type: none"> <li>▪ Preparing the client and environment.</li> <li>▪ General survey.</li> <li>▪ Head and necks</li> </ul>	1	2	a1, c1, d1

		<ul style="list-style-type: none"> <li>▪ Upper extremities.</li> <li>▪ Chest and back.</li> <li>▪ Abdomen.</li> <li>▪ Genitalia exam</li> <li>▪ Lower extremities).</li> </ul>			
6	Vital signs	<p><b>B. Vital signs.</b> ( Time to assess vital signs.-Variations in normal vital signs by age.</p> <p>1)Body temperature.</p> <ul style="list-style-type: none"> <li>▪ Factors affecting body <b>temperature</b></li> <li>▪ Alterations in body temperature</li> <li>▪ Advantages and disadvantages of four sites for body temperature measurement</li> <li>▪ Types of thermometers, and Temperature scales – Celsius and Fahrenheit)</li> </ul> <p>2)<b>Pulse</b></p> <ul style="list-style-type: none"> <li>▪ Factors affecting pulse rate.</li> <li>▪ Pulse sites.</li> <li>▪ Measurement of pulse</li> <li>▪ Documenting pulse</li> </ul> <p>3)<b>Respiration</b></p> <ul style="list-style-type: none"> <li>▪ Review the physiology of breathing.</li> <li>▪ Assessing respiration.</li> <li>▪ Factors affecting respiratory rate.</li> <li>▪ Altered breathing patterns and sounds.</li> </ul> <p>4)<b>Blood pressure</b></p> <ul style="list-style-type: none"> <li>▪ Factors affecting blood pressure.</li> <li>▪ Assessing blood pressure (equipment, sites, methods).</li> <li>▪ Common errors in assessing blood Pressure)</li> </ul>	4	8	A1, c1, d1
7		<b>Midterm exam</b>	1	2	a1, b1, c1, d1
8	Safety protection.	<ul style="list-style-type: none"> <li>▪ Factors affecting safety</li> <li>▪ Safety hazards throughout the life span.</li> </ul>	1	2	a2, b2, c2, d2

		<ul style="list-style-type: none"> <li>▪ Preventing specific hazards (Scalds and burn, Fires, Falls, Poisoning, Suffocation or choking, Electrical hazards).</li> <li>▪ Restraining client. - Kinds of restraints.</li> </ul>			
9	Asepsis.	<ul style="list-style-type: none"> <li>▪ Chain of infection</li> <li>▪ Nosocomial infection.</li> <li>▪ Factors increasing susceptibility to infection.</li> <li>▪ Cleaning, disinfecting and sterilization.</li> <li>▪ Isolation precautions. - Isolation practices.</li> <li>▪ Principles of medical asepsis</li> <li>▪ Sterile techniques.</li> <li>▪ Principles of surgical asepsis</li> <li>▪ Sterile field.</li> <li>▪ Infection control for health care workers.</li> <li>▪ Role of infection control nurse.</li> </ul>	2	4	a2, b2, c2, d2
10	Hygiene	<ul style="list-style-type: none"> <li>▪ Factors influencing personal hygiene.</li> <li>▪ Agents commonly used on the skin.</li> <li>▪ Purpose of bathing, oral hygiene, skin, feet, nails, hair, eyes ears and nose care.</li> <li>▪ Hygienic environment. –</li> <li>▪ Hospital beds. - Mattresses. - Side rails. - Foot board. - Bed cradles.</li> <li>▪ Making beds (Occupied, unoccupied, post-operative beds).</li> </ul>	1	2	a2, b2, c2, d2
11	Activity and Exercise	<ul style="list-style-type: none"> <li>▪ Basic elements of normal movement.</li> <li>▪ Factors affecting body alignment and activity.</li> <li>▪ Joint movement.</li> <li>▪ Types of exercise (Isotonic, isometric, isokinetic, aerobic, anaerobic exercise).</li> <li>▪ Benefits of exercise</li> <li>▪ Effect of immobility.</li> </ul>	1	2	a2, b2, c2, d2

		<ul style="list-style-type: none"> <li>▪ Using body mechanics.</li> <li>▪ Positioning</li> <li>▪ Moving and turning clients in bed.</li> <li>▪ Transferring clients.</li> <li>▪ Providing range of motion exercise.</li> </ul>			
12	<b>Final exam</b>	Final term exam	1	2	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	<ul style="list-style-type: none"> <li>▪ Admission and discharge</li> </ul>	1	2	c1, d1
1	<b>Vital signs</b> <ul style="list-style-type: none"> <li>▪ Body temperature</li> <li>▪ Pulse</li> <li>▪ Respiration</li> <li>▪ Blood pressure</li> </ul>	2	4	c1, d1
2	<b>Physical examination</b>	1	2	c1, d1
3	<b>Safety protection</b> <ul style="list-style-type: none"> <li>▪ Restraining client</li> </ul>	1	2	c2, d2
4	<b>Asepsis</b> <ul style="list-style-type: none"> <li>▪ Cleaning, disinfecting and sterilization</li> <li>▪ Sterile field</li> <li>▪ Hand washing and hand antiseptic</li> <li>▪ Don sterile gloves</li> <li>▪ Don sterile gown</li> </ul>	2	4	c2
5	Midterm exam	1	2	c1, c2
6	<b>Hygiene</b> <ul style="list-style-type: none"> <li>▪ Oral hygiene</li> <li>▪ Bed bath</li> <li>▪ Hair shampoo</li> <li>▪ Foot care</li> <li>▪ Perineal care</li> </ul>	2	4	c2

	<ul style="list-style-type: none"> <li>▪ Applying heat and cold application</li> </ul>			
7	Making beds <ul style="list-style-type: none"> <li>▪ Occupied bed</li> <li>▪ Unoccupied bed</li> <li>▪ Surgical beds</li> </ul>	1	2	c2, d2
8	<b>Activity and Exercise</b> <ul style="list-style-type: none"> <li>▪ Range of motion exercise</li> <li>▪ Passive &amp; active exercises</li> <li>▪ Transferring</li> <li>▪ Moving and turning clients in bed</li> <li>▪ Positioning</li> <li>▪ Using body mechanics</li> </ul>	2	4	c2
	Final exam	1	2	c1, c2, d1
<b>Number of Weeks /and Units Per Semester</b>				

<b>C. Tutorial Aspect:</b>				
<b>No.</b>	<b>Tutorial</b>	<b>Number of Weeks</b>	<b>Contact Hours</b>	<b>Learning Outcomes (CILOs)</b>
1	None			
2				
3				
4				
5				
6				
7				
<b>Number of Weeks /and Units Per Semester</b>				

<b>V. Teaching Strategies of the Course:</b>
1. Interactive lecture & discussion 2. Laboratory work 3. Role-play and simulation 4. Small group discussion 5. Learning tasks and activities 6. Brain storming 7. Seminars and student presentations



- 8. Active learning
- 9. Problems solving

## VI. Assessment Methods of the Course:

- Assignment
- Practical/Clinical examination
- Reports (Lab Reports)
- Assessment of skills with checklist
- Written reports about lab training
- Case presentation
- Log book
- Midterm exam
- Final exam (Oral & Practical)

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignments 1: Presentation on (infectious diseases)	W5	5	a1, b1
2	Assignments 2: Visits CSSD write observation report	W11	5	a2, b2,
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Weeks 5-11	10	10%	a1, b1, a2, b2
2	Quizzes 1	Week 6	5	5%	a1
3	Mid-Term Theoretical Exam	Week 7	10	10%	a1, b1, c1, d1
4	Mid-Term Practical Exam	Week 7	10	10%	b1, c1
	Quizzes 2	Week 12	5	5%	a2
	Final Practical Exam	Week 15	20	20%	b2, c2
	Final Theoretical Exam	Week 16	40	40%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

1. Kozier and Erb's (2018) FUNDAMENTALS OF NURSING Concepts, Process and Practice 4<sup>th</sup> Ed Australian, New York, Addison Wesley Longman
2. Taylor's (2019). Clinical Nursing Skills A Nursing Process Approach 4<sup>th</sup> Ed. LWW

### 2- Essential References:

1. Brunner & Suddarth's (2018). Textbook of Medical-Surgical Nursing 14<sup>th</sup> Ed 2018. Philadelphia, Lippincott – Wilkins & Wilkins.
2. Perry & Potter (2020). Fundamentals of Nursing-Elsevier 10<sup>th</sup> Ed
3. Lippincott (2019). Manual Of Nursing Practice 11<sup>th</sup> Ed
4. Concept Based Clinical Nursing Skills (2020). Fundamental to Advanced 1<sup>st</sup> Ed

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- [www.ANA.com](http://www.ANA.com)
- [www.ASCO.com](http://www.ASCO.com)

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

I. Course Identification and General Information:			
1	Course Title:	Medical Physics	
2	Course Code & Number:		
3	Credit Hours: 2hr	Credit Hours	Lab. Hours
		Theory Hours	
		Lecture	Exercise
		2hr	---
4	Study Level/ Semester at which this Course is offered:	2 <sup>nd</sup> year / 1 <sup>st</sup> semester	
5	Pre –Requisite (if any):	Non	
6	Co –Requisite (if any):	No found	
7	Program (s) in which the Course is Offered:		
8	Language of Teaching the Course:	English	
9	Study System:	Semester	
10	Mode of Delivery:	Full time	
11	Location of Teaching the Course:	Class	
12	Prepared by:		
13	Date of Approval:	2021-2022	

II. Course Description:
<p>Providing the student with the basic knowledge and understand the concepts, lows physics which related to medicine such as measurement and units, work, energy, heat and temperature, properties of liquids and gases, blood pressure, electricity, light and lenses, elasticity, motion, introduction of physics of hearing and vision, introduction of nuclear and the instruments which based on the physic concepts.</p>

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>D. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a1	Define physics quantities, medical physics, electric charge, electric field, fluid, light, light, radiation physics....	A1	
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1	Explain the physics concepts that related in medicine	B1	

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Able to use equations to solve problems	<b>C1</b>	
c2		<b>C2</b>	

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Present scientific topics in seminar.	<b>D1</b>	
d2	work as team.	<b>D2</b>	

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Define the physic concepts	Lectures Group discussion.	Quiz Mid-term exam Final term exam
a2	Identify the matter state	Lectures Group discussion.	Quiz Mid-term exam Final term exam
	Recognize the side effects of electricity .	Lectures Group discussion.	Quiz Mid-term exam Final term exam
	Explain Mechanism of electricity in the body.	Lectures Group discussion.	Quiz Mid-term exam Final term exam

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	list the eye defect.	Lectures Group discussion.	Written test Oral exam
b2	Explain the side effect of radiation on the body.	Lectures Group discussion.	Written test Oral exam
	Identify the role of radiation in medicine.	Lectures Group discussion.	Written test Oral exam

<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d1	Present scientific topics in seminar.	Seminar Group discussion.	Mid-term exam Final term exam
d2	work as team.	Seminar Group discussion.	Mid-term exam Final term exam

<b>IV. Course Contents:</b>					
<b>A. Theoretical Aspect:</b>					
<b>No.</b>	<b>Units/Topics List</b>	<b>Sub Topics List</b>	<b>Number of Weeks</b>	<b>Contact Hours</b>	<b>Learning Outcomes (CLOs)</b>
1	<b>Measurement and units</b>	<ul style="list-style-type: none"> <li>• Introduction on physics and medical physics. Physical quantity Measurements</li> <li>• Vectors</li> </ul>	2	2	
2	<b>Motion</b>	<ul style="list-style-type: none"> <li>• Motion in straight lines</li> <li>• Newton's laws.</li> </ul>	1	2	
		<ul style="list-style-type: none"> <li>• Work</li> <li>• Energy and its transfer</li> <li>• Power</li> </ul>	1	2	
4	<b>Electricity</b>	<ul style="list-style-type: none"> <li>• Electric Charge</li> <li>• Electric field</li> <li>• Electric force and capacitor</li> <li>• Electric current</li> <li>• Ohm's law</li> </ul>	1	2	
5		<ul style="list-style-type: none"> <li>• Electricity in the body</li> </ul>	1	2	

		<ul style="list-style-type: none"> <li>• ECG</li> <li>• EEG</li> <li>• EMG</li> </ul>			
6	<b>Mechanic of fluids</b>	<ul style="list-style-type: none"> <li>• Fluid properties</li> <li>• Pressure and blood pressure</li> <li>• Density</li> </ul>	1	2	
7		<ul style="list-style-type: none"> <li>• Flow of fluid</li> <li>• Continuity equation</li> <li>• Bernoulli equation</li> <li>• Application of Bernoulli's equation</li> </ul>	2	2	
8		<b>Mid Exam</b>	1	2	
9	<b>Heat and temperature</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b></li> <li>• <b>Thermometer</b></li> <li>• <b>Gas law</b></li> <li>• <b>Internal energy</b></li> <li>• <b>Heat, Heat capacity, specific heat</b></li> <li>• <b>Mechanisms of Energy Transfer in thermal Processes</b></li> </ul>	1	2	
10	<b>Radiation and Radiotherapy</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Type of radiation</li> <li>• radiobiology</li> <li>• Principle of radioprotection</li> <li>• Radiotherapy</li> <li>• Nuclear Medicine</li> </ul>	2	2	
11	<b>Light and optics</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Mirror and lenses</li> <li>• Eye</li> <li>• Microscopes</li> </ul>	2	2	
16		<b>Final exam</b>	1	2	
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>24</b>	

## V. Teaching Strategies of the Course:

- 1- lecture.
- 2- Discussion in groups.
- 3- Researching in groups for different topics as assignments.
- 4- Seminar Group discussion.

## VI. Assessment Methods of the Course:

- |                                 |  |
|---------------------------------|--|
| 1- Participation& semester work | to assess intellectual skills                  |
| 2- Mid-term exam                | to assess the knowledge & understanding        |
| 3-Final term exam               | to assess the knowledge & understanding        |
| 4- Quizzes                      | to assess the knowledge & understanding        |
| 6- Workbook Assignments         | to assess the general and transferable skills. |

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Semester work		20	20%	
2	Mid-Term Examination		20	20%	
4	Final-term Examination		60	60%	
Total			100	100%	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ):

1. Hassan Maridi, Medical physics for medicines

### 2- Essential References:

1. Hafez A. Radi, John O. Rasmussen( 2013 ) Principles of Physics For Scientists and Engineers, Springer
- 2.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Physics

## X. Course Policies: (Based on the Uniform Students' By law (2007)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.



**SYLLABUS**  
**YEAR (1)**  
**SEMESTER (2)**

**Standard II: Course Identification and General Information:**

1	<b>Course Title:</b>	English Language II				
2	<b>Course Number &amp; Code:</b>					
3	<b>Credit hours:</b>	<b>C.H</b>				<b>Total</b>
		<b>Th.</b>	<b>Pr.</b>	<b>Tut.</b>	<b>Tr.</b>	
		<b>2</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>2</b>
4	<b>Study level/year at which this course is offered:</b>					
5	<b>Pre –requisite (if any):</b>					
6	<b>Co –requisite (if any):</b>					
7	<b>Name of faculty member responsible for the course:</b>					
8	<b>Program (s) in which the course is offered:</b>					
9	<b>Language of teaching the course:</b>					
10	<b>Location of teaching the course:</b>					
11	<b>Prepared By:</b>					
12	<b>Approved By:</b>					

**Standard III: Course Description:**

This course is designed to help the student acquire a good command and comprehension of the Medical English terminology through individual, papers and conferences. Students will practice their skills in verbal and written English during clinical and classroom experience.

**Standard IV: Professional Information:****Aims of The Course:****Brief summary of the knowledge or skill the course is intended to develop:**

1. Identifies basic structures and components of medical terms and names of health problems and how to deal with long Latin of Greek terms and their meanings.
2. Divides the English articles into paragraphs and ideas and memorize and recall information from English articles.
3. Write properly an easy in English.

**Intended learning outcomes (ILOs) of the course:**

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Identifies basic structures and components of medical terms and names of health problems and how to deal with long Latin of Greek terms and their meanings.	Lecture -Discussion Demonstrate use of dictionary grammar Class-room Conversation Exercise on use of terminology	Short Answers Essay type.

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Divides the English articles into paragraphs and ideas and memorize and recall information from English articles.	Lecture Discussion Exercise on articles	Short Answers Essay type.
B2. Write properly an essay in English.	Lecture Discussion Exercise on articles	Short Answers Essay type.

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
Not Applicable		

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
Not Applicable		

<b>v: Course Content:</b>					
<b>1 – Course Topics/Items:</b>					
<b>a – Theoretical Aspect:</b>					
Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Medical terminology	<ul style="list-style-type: none"> <li>▪ Origin of medical terms</li> <li>▪ Parts of a medical term: prefix, suffix, root</li> <li>▪ Prefixes related adjectives e.g. numeric (e.g. mono) , size" large and small" (e.g. micro, macro) , dimension "short (e.g. brachy) , speed" slow, fast (e.g. brady, tachy), location (intra, exter, per, ante, post) increased and decreased (e.g. hypo, hyper , mal, olig, a, an), different (e.g. dis, pseud, meta,) , colors (e.g. leuco, erythro)</li> <li>▪ Suffixes related to science (e.g. -</li> </ul>	6	24	A1,B1

		<p>logy, -logist), tests (-scope, -scopy, -----</p> <ul style="list-style-type: none"> <li>▪ -graph, -graphy, , measurement (e.g. -meter), case (-ia, -iasis, -osis,), diseases (e.g.- pathy, -oma, -neoplsm), operations( e.g. – ectomy)</li> <li>▪ Roots related to body cells (e.g. cyte, cyto) tissues(hist) , organs (vaso, card), chemical names (glyc, hydr, chlor, proteo), sciences (patho, physio, bio)</li> <li>▪ Multi-roots terms e.g. hyperglycemia</li> <li>▪ Terms without suffix e.g. erythrocytes</li> <li>▪ Terms without prefix e.g. cardiology</li> </ul>			
2	Midterm exam	Midterm exam	1	2	A1,B1
3	Articles understanding	<ul style="list-style-type: none"> <li>▪ Basic skills</li> <li>- Comprehensive reading</li> <li>- Overall topic of the article</li> <li>- Paragraphing</li> <li>- Memorizing</li> <li>- Recalling</li> <li>- Answering questions</li> <li>- Making questions</li> <li>▪ Experimentation of basic skills on a number of Medical articles</li> <li>- Human anatomy (skeletal system)</li> <li>- Infectious diseases</li> <li>- Prevention of disease</li> <li>- Disease treatment</li> <li>- Hypertension</li> <li>- Diabetes</li> <li>- Depression</li> <li>- Cancer</li> <li>- Blood</li> <li>- Burn</li> <li>- Digestive orders</li> </ul>	5	20	B1
4	Essay	<ul style="list-style-type: none"> <li>▪ Basic skills-Body system – Body cavities</li> <li>- Making a correct sentence.</li> <li>- Flow and compatibility of ideas.</li> <li>- Topics (medical and Health sciences)</li> </ul>	3	12	B2
5	<b>Final Term Exam</b>		1	2	A1,B1,B2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>60</b>	

V. Teaching strategies of the course				
1. Lecture - Discussion 2. Demonstration 3. Brainstorming 4. Case discussions / Seminar				

VI. Assignments				
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Medical terminology	A1,B1	5-10	5

VII. Schedule of Assessment Tasks for Students During the Semester					
No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
1	Attendance and activities	15 <sup>th</sup> week	5	5%	a1,b1,b2
2	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	5	5%	a1,b1
3	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	20	20%	a1,b1,b2
4	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	70	70%	a1,b1,b2
	Number of Weeks /and Units Per Semester		100	100%	

<b>VII: Learning Resources:</b>
<b>2. Required Textbook(s) ( maximum two ).</b>
1. Selva Rose. (1997), Career English for Nurses. Cheiu;ai: OientLongrnanLtd. 2. Quirk, Randolph and Jreenbaum Sidney(1987). A University Grammar of English, Hong Kong: Longman group (FE) Ltd.
<b>3. Essential References.</b>
1. Thomson A. J. and Maitüiet A. V. (1987). A icticl English Grammar, Delhi: Oxford University Press. 2. Gimson A. E. (1986). An Introduction to pronunciation of English. Hong kong: Wing King Tong Ca. Ltd. 3. O' Connor J. D, (1986). Better English h'onuwiation. Cambridge:University Press.
<b>4. Electronic Materials and Web Sites etc.</b>

1. [WWW.encontinouear.com](http://WWW.encontinouear.com)
2. [Http:// www.google. Com](http://www.google.com)

#### **IX. Course Policies:**

<b>1</b>	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
<b>2</b>	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
<b>3</b>	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
<b>4</b>	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
<b>5</b>	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
<b>6</b>	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## I. Course Identification and General Information:

1	Course Title:	Anatomy & Physiology 2			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Field	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

The anatomy and physiology course is designed to provide the students with an understanding of the basics of the human body structures and functions both at gross and microscopic levels. The course provides an overview of the anatomy and physiology of the nervous system, endocrine system, cardiovascular system, respiratory system, digestive system, urinary system and reproductive system.

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

E. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Define terminology, anatomical position, planes, sections, regions of the nervous system and endocrine system	A1	
a2	Identify the anatomical significance with the physiological functions and with the clinical conditions of the cardiovascular system, respiratory system, digestive system, urinary system and reproductive system.	A3	

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Differentiate the surface markings of clinically important structures	B2	
b2	Compare between the sympathetic nervous system and the parasympathetic nervous system	B3	

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Demonstrate the morphology of the nervous system, endocrine system, cardiovascular system and respiratory system on anatomical models	C1	
c2	Label a diagram of the anatomic structures of the special organs and the functions of the anatomic structures of each organs	C2	

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Utilizes the value of inter-professional collaborative practice, coordination and interpersonal communication skills when dealing with patients and their families	D1	
d2	Apply the principle of professional ethics when dealing with patients and at the end of life care	D3	

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Define terminology, anatomical position, planes, sections, regions of the nervous system and endocrine system	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Identify the anatomical significance with the physiological functions and with the clinical conditions of the cardiovascular system, respiratory	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>



system, digestive system, urinary system and reproductive system.	<ul style="list-style-type: none"> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> </ul>
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**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Differentiate the surface markings of clinically important structures	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Compare between the sympathetic nervous system and the parasympathetic nervous system	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Demonstrate the morphology of the nervous system, endocrine system, cardiovascular system and respiratory system on anatomical models	<ul style="list-style-type: none"> <li>▪ Case-Based Learning</li> <li>▪ Clinical teaching &amp; learning</li> <li>▪ Laboratory work</li> <li>▪ Role plays &amp; simulation</li> <li>▪ Small group discussion</li> <li>▪ Seminar (Discussions)</li> <li>▪ Practice session</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Practical/Clinical examination</li> <li>▪ Reports (Lab Reports.)</li> <li>▪ Lab work</li> <li>▪ Assessment of skills with checklist</li> </ul>
c2	Label a diagram of the anatomic structures of the special organs and the functions of the anatomic structures of each organs	<ul style="list-style-type: none"> <li>▪ Case-Based Learning</li> <li>▪ Clinical teaching &amp; learning</li> <li>▪ Laboratory work</li> <li>▪ Role plays &amp; simulation</li> <li>▪ Small group discussion</li> <li>▪ Seminar (Discussions)</li> <li>▪ Practice session</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Practical/Clinical examination</li> <li>▪ Reports (Lab Reports.)</li> <li>▪ Lab work</li> <li>▪ Assessment of skills with checklist</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
-----------------------------------	---------------------	-----------------------

d1	Utilizes the value of inter-professional collaborative practice, coordination and interpersonal communication skills when dealing with patients and their families	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Apply the principle of professional ethics when dealing with patients and at the end of life care	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	The nervous system	<ul style="list-style-type: none"> <li>▪ <b>The nervous system</b> <ul style="list-style-type: none"> <li>○ <b>The central nervous system</b> <ul style="list-style-type: none"> <li>• <b>Brain</b> <ul style="list-style-type: none"> <li>✓ Development</li> <li>✓ Protective structures <ul style="list-style-type: none"> <li>• Divisions of the brain</li> <li>• Areas of specialization</li> <li>• Vascular supply</li> </ul> </li> <li>✓ The meninges</li> <li>✓ Cerebrospinal fluid</li> <li>✓ Cns circulation</li> </ul> </li> <li>• <b>The spinal cord</b> <ul style="list-style-type: none"> <li>✓ Development</li> <li>✓ Protective structures</li> <li>✓ Divisions</li> </ul> </li> </ul> </li> <li>○ <b>The peripheral nervous system</b> <ul style="list-style-type: none"> <li>• <b>Cranial nerves</b> <ul style="list-style-type: none"> <li>✓ The somatic (voluntary) nervous system</li> <li>✓ The autonomic (involuntary) nervous system</li> </ul> </li> <li>• <b>Spinal nerve</b></li> </ul> </li> </ul> </li> <li><b>Nervous system physiology</b> <ul style="list-style-type: none"> <li>✓ Sensory receptors</li> <li>✓ Pain pathway</li> <li>✓ pain control system</li> <li>✓ Ascending sensory</li> <li>✓ Descending motor pathways</li> <li>✓ Motor function</li> <li>✓ Synaptic junction</li> </ul> </li> </ul>	4	8	a1, b1, c1, d1

2	<b>The endocrine system</b>	<ul style="list-style-type: none"> <li>▪ <b>The endocrine system</b> <ul style="list-style-type: none"> <li>○ Hypothalamus</li> <li>○ Pituitary gland <ul style="list-style-type: none"> <li>✓ Posterior pituitary</li> <li>✓ Anterior pituitary</li> </ul> </li> <li>○ Thyroid gland</li> <li>○ Parathyroid glands</li> <li>○ Thymus gland</li> <li>○ Pancreas</li> <li>○ Adrenal glands</li> <li>○ Gonads <ul style="list-style-type: none"> <li>✓ Ovaries</li> <li>✓ Testes</li> </ul> </li> <li>○ Pineal gland</li> </ul> </li> <li><b>Endocrine physiology</b> <ul style="list-style-type: none"> <li>✓ Chemical structure and synthesis of hormones, secretion, transport, and clearance.</li> <li>✓ Mechanisms of action of hormones, feedback control of hormone secretion.</li> <li>✓ The pituitary hormones and their control by the hypothalamus</li> <li>✓ The thyroid metabolic hormones.</li> <li>✓ The adrenocortical hormones.</li> <li>✓ Insulin, glucagons, and diabetes mellitus.</li> </ul> </li> </ul>	2	4	a1, c1,d1
3	<b>Midterm exam</b>	<b>Midterm exam</b>	1	2	a1, b1, c1, d1
4	<b>The cardiovascular system</b>	<ul style="list-style-type: none"> <li>▪ <b>The cardiovascular system</b> <ul style="list-style-type: none"> <li>○ <b>Anatomy of the heart</b> <ul style="list-style-type: none"> <li>✓ Tissue layers</li> <li>✓ Chambers</li> <li>✓ Valves</li> <li>✓ Blood flow</li> <li>✓ Coronary circulation</li> </ul> </li> <li>○ <b>Cardiac physiology</b> <ul style="list-style-type: none"> <li>✓ The cardiac cycle</li> <li>✓ Nervous control of the heart</li> <li>✓ Electrophysiology</li> <li>✓ Cardiac depolarization</li> <li>✓ Cardiac conductive system</li> </ul> </li> <li>○ <b>Anatomy of the peripheral circulation</b> <ul style="list-style-type: none"> <li>✓ The arterial system</li> <li>✓ The venous system</li> <li>✓ The lymphatic system</li> </ul> </li> <li>○ <b>The physiology of perfusion</b></li> </ul> </li> </ul>	3	6	a2, b2, c2, d2

		<ul style="list-style-type: none"> <li>✓ Components of the circulatory system</li> <li>✓ Oxygen transport</li> <li>✓ Waste removal</li> </ul>			
5	<b>The respiratory system</b>	<ul style="list-style-type: none"> <li>▪ <b>The respiratory system</b> <ul style="list-style-type: none"> <li>○ <b>Upper airway anatomy</b> <ul style="list-style-type: none"> <li>✓ The nasal cavity</li> <li>✓ The oral cavity</li> <li>✓ The pharynx</li> <li>✓ The larynx</li> </ul> </li> <li>○ <b>Lower airway anatomy</b> <ul style="list-style-type: none"> <li>✓ The trachea</li> <li>✓ The bronchi</li> <li>✓ The alveoli</li> <li>✓ The lung parenchyma</li> <li>✓ The pleura</li> </ul> </li> <li>○ <b>The pediatric airway</b></li> <li>○ <b>Physiology of the respiratory system</b> <ul style="list-style-type: none"> <li>✓ Respiration and ventilation <ul style="list-style-type: none"> <li>• The respiratory cycle</li> <li>• Pulmonary circulation</li> </ul> </li> <li>✓ Measuring oxygen and carbon dioxide levels <ul style="list-style-type: none"> <li>• Diffusion</li> <li>• Oxygen concentration in the blood</li> <li>• Carbon dioxide concentration in the blood</li> </ul> </li> <li>✓ <b>Regulation of respiration</b> <ul style="list-style-type: none"> <li>• Voluntary and involuntary respiratory controls</li> <li>• Nervous impulses from the respiratory center</li> <li>• Stretch receptors</li> <li>• Chemoreceptors</li> <li>• Hypoxic drive</li> </ul> </li> </ul> </li> <li>○ Measures of respiratory function</li> </ul> </li> </ul>	2	4	a2, b2, c2, d2
5	<b>The abdomen and the digestive system</b>	<ul style="list-style-type: none"> <li>▪ <b>The abdomen</b> <ul style="list-style-type: none"> <li>○ Abdominal vasculature</li> <li>○ The peritoneum</li> </ul> </li> <li>▪ <b>The digestive system</b> <ul style="list-style-type: none"> <li>○ The digestive tract <ul style="list-style-type: none"> <li>✓ Stomach</li> <li>✓ Pancreas.</li> <li>✓ Duodenum</li> <li>✓ Small intestine and its mesentery</li> <li>✓ Large intestine</li> <li>✓ Caecum and appendix</li> <li>✓ A T D Colon</li> </ul> </li> </ul> </li> </ul>	2	4	a2, b2, c2, d2

		<ul style="list-style-type: none"> <li>✓ Pelvic colon</li> <li>✓ Rectum</li> <li>✓ Anal canal</li> <li>○ Accessory organs of digestion <ul style="list-style-type: none"> <li>✓ Liver</li> <li>✓ Pancreas</li> <li>✓ Gall bleeder</li> <li>✓ Salivary gland</li> </ul> </li> <li>▪ <b>The spleen</b></li> <li>▪ <b>The urinary system</b> <ul style="list-style-type: none"> <li>○ The kidneys <ul style="list-style-type: none"> <li>✓ Gross and microscopic anatomy of the kidney</li> <li>✓ Kidney physiology <ul style="list-style-type: none"> <li>• Overview of nephron physiology</li> <li>• Tubular handling of water and electrolytes</li> <li>• Tubular handling of glucose and urea</li> <li>• Control of arterial blood pressure</li> <li>• Control of erythrocyte development</li> </ul> </li> </ul> </li> <li>○ The ureters</li> <li>○ The urinary bladder</li> <li>○ The urethra</li> </ul> </li> </ul>			
6	<b>The reproductive system</b>	<ul style="list-style-type: none"> <li>▪ <b>The reproductive system</b> <ul style="list-style-type: none"> <li>○ The female reproductive system <ul style="list-style-type: none"> <li>✓ The external genitalia <ul style="list-style-type: none"> <li>• Perineum</li> <li>• Mons pubis</li> <li>• Labia</li> <li>• Clitoris</li> </ul> </li> <li>✓ <b>The internal genitalia</b> <ul style="list-style-type: none"> <li>• Vagina</li> <li>• Uterus</li> <li>• Fallopian tubes</li> <li>• Ovaries</li> </ul> </li> <li>✓ <b>The menstrual cycle</b> <ul style="list-style-type: none"> <li>• The proliferative phase</li> <li>• The secretory phase</li> <li>• The ischemic phase</li> <li>• The menstrual phase</li> </ul> </li> <li>✓ The pregnant uterus</li> </ul> </li> <li>○ <b>The male reproductive system</b> <ul style="list-style-type: none"> <li>✓ Testes</li> <li>✓ Epididymis and vas deferens</li> <li>✓ Prostate gland</li> <li>✓ Penis</li> </ul> </li> </ul> </li> </ul>	1	2	a2, b2, c2, d2

7	Final exam	Final exam	1	2	a2, b2, c2, d2
Number of Weeks /and Units Per Semester			16	32	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	The nervous system,	2	4	c2
2	Endocrine system	1	2	c2
3	Cardiovascular system	2	4	c2
4	Respiratory system	2	4	c2
5	Midterm exam	1	2	c1
6	Digestive system	2	4	c1
7	Urinary system	2	4	c1, c2
8	Reproductive system	2	4	c1, c2
9	Final exam	1	2	c1, c2
Number of Weeks /and Units Per Semester		15	30	

### V. Teaching Strategies of the Course:

1. Interactive lecture
2. Seminars and student presentations
3. Brain storming
4. Role-play and simulation
5. Small group discussion
6. Learning tasks and activities
7. Problems solving
8. Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

<b>VII. Assignments:</b>				
No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: Endocrine hormones	W5	5	a1, d1
2	Assignment 2: Menstrual cycle	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

<b>VIII. Schedule of Assessment Tasks for Students During the Semester:</b>					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Weeks 5-11	10	10%	a1, a2, b2, c2, d1
2	Quizzes 1	Week 6	5	5%	a1, b1, c1, d1
3	Mid-Term Theoretical Exam	Week 7	10	10%	a1, b1, c1, d1
4	Mid-Term Practical Exam	Week 7	10	10%	b1, c1,
	Quizzes 2	Week 12	5	5%	a2, b2,
	Final Practical Exam	Week 15	20	20%	b2, c2, d2
	Final Theoretical Exam	Week 16	40	40%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

<b>IX. Learning Resources:</b>
<ul style="list-style-type: none"> <li>Written in the following order: Author, Year of publication, <b>Title</b>, Edition, Place of publication, Publisher.</li> </ul>
<b>1- Required Textbook(s) ( maximum two ): مثال example</b>
<ol style="list-style-type: none"> <li>Heylings D., Leinster S., Carmichael S., Saada J., Logan B., and Hutchings R., (2018). McMinn's Concise Human Anatomy. 2<sup>nd</sup> Ed.; Taylor &amp; Francis Group, LLC</li> <li>Jones S., (2017). Pocket Anatomy &amp; Physiology. 3<sup>rd</sup> Ed. F. A. Davis Company, Philadelphia</li> <li>Bledsoe B., Porter, R., &amp; Cherry, R., (2014). Pearson New International Edition, Essentials of Paramedic Care Update, 2<sup>nd</sup> Ed., Pearson Education Limited</li> </ol>
<b>2- Essential References:</b>
<ol style="list-style-type: none"> <li>Sanders, M., &amp; McKenna k., Tan, D., Pollak A., and Mejia A., (2019). Sanders' Paramedic Textbook 5<sup>th</sup> Ed., USA.</li> <li>LaPres J., Kersten ., and Tang Y., (2016). Gunstream's Anatomy &amp; Physiology With Integrated Study Guide. 6<sup>th</sup> Ed. McGraw-Hill</li> </ol>

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

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## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.



I. Course Identification and General Information:			
1	Course Title:	Biochemistry1	
2	Course Code & Number:	BC 1204	
3	Credit Hours:	Credit Hours	Lab. Hours
		Theory Hours	
		Lecture	Exercise
		3	2
		0	2
4	Study Level/ Semester at which this Course is offered:	First Year: Second Semester	
5	Pre –Requisite (if any):	Biology	
6	Co –Requisite (if any):	None	
7	Program (s) in which the Course is Offered:	Diploma in Medical Laboratory Technology (DMLT)	
8	Language of Teaching the Course:	English and Arabic	
9	Study System:	Credit Hour System- Semester	
10	Mode of Delivery:	Full Time	
11	Location of Teaching the Course:	CC Campus(Public and private community colleges)	
12	Prepared by:	Prof. Ali Al-Miri	
13	Date of Approval:		

II. Course Description:
<p>This course provides an overview of the main aspects about structural formula, digestions, absorption metabolism of carbohydrate, lipids, proteins, nucleic acid, body fluids and diseases of metabolic abnormalities. The practical part includes studying blood collection, anticoagulants, and separation of serum and plasma. Perform some basic chemical testes to identify different sugars, lipids and proteins.</p>

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)	Referenced PILOs (مخرجات تعلم البرنامج)
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F. Knowledge and Understanding: Upon successful completion of the course, students will be able to:			
a1	Understand the important of biochemistry in field of laboratory techniques	A1	Know all the fundamental information in medical laboratories.

a2	Understand diseases of metabolic abnormalities.	A4	Understand the specialized laboratory materials, theoretically and practically, in line with advanced scientific progress.
a3	Identify the chemical structure of carbohydrate, lipids, proteins.	A5	Know and understand all laboratory tests, their abbreviations, their importance, the method of taking them, and the interpretation of their results.

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Describe carbohydrate, lipids, proteins metabolism.	B2	Review and critique manual laboratory processes that include patient preparation, sample requirements, solutions preparation, examination procedures, calculation of results and quality assurance.
b2	Discuss important of vitamins enzyme and mineral in biochemistry.	B6	Collect, treat, and analyze samples and interpret the results with high efficiency.

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Collect, transport, preserve and store blood samples according to Standard Operating Procedures (SOPs).	C1	Collect samples from patients in a safe professional manner.
c2	Use the instrument and devices in biochemistry lab.	C3	Use advanced laboratory equipment effectively and responsibly with the application of quality systems.
c3	Perform some basic chemical testes to identify different sugars, lipids and proteins.	C4	Perform laboratory experiments and scientific interpretation of the results of laboratory tests.

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Work independently or as a team member and effectively communicate with the teaching hematology staff and colleagues to identify, analyze and understand emerging issues.	D1	Work as a team.
		D2	Respect patients, colleagues, and superiors and maintain the privacy of patient information.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Understand the important of biochemistry in field of laboratory techniques	-Interactive Lectures - Group Discussion - Self study	- Quizzes - Assignments & Homework - Mid-semester exam -Final exams
a2	Understand diseases of metabolic abnormalities.	-Interactive Lectures - Presentation - Group Discussion	-Quizzes -Assignments & Homework -Mid-semester exam -Final exams
a3	Identify the chemical structure of carbohydrate, lipids, proteins.	-Interactive Lectures - Presentation - Group Discussion	-Quizzes -Assignments & Homework -Mid-semester exam -Final exams

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Describe carbohydrate, lipids, proteins metabolism.	- Interactive Lectures - Seminars -Oral presentations	- Quizzes - Assignments - Mid semester exam -Final exams
b2	Discuss important of vitamins enzyme and mineral in biochemistry.	- Interactive Lectures - Self-learning - Brain storming	- Quizzes - Assignments -Midterm Exam -Final Exam

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Collect, transport, preserve and store blood samples according to Standard Operating Procedures (SOPs).	- Demonstrations -Group discussion	-Quizzes - Mid semester exam -Final exams
c2	Use the instrument and devices in biochemistry lab.	- Group discussion - Animations - Scenarios and Problem Solving	- Quizzes - Assignments - Mid semester exam -Final exam
c3	Perform some basic chemical testes to identify different sugars, lipids and proteins.	- Group discussion - Animations	- Quizzes - Assignments - Mid semester exam

		- Scenarios and Problem Solving	- -Final exam
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d1	Work independently or as a team member and effectively communicate with the teaching hematology staff and colleagues to identify, analyze and understand emerging issues.	- Presentations - Group discussions & seminars -Self-study modules	- Write reports -Write Exercises & solving it. - Assignments &Homework

<b>IV. Course Contents:</b>					
<b>A. Theoretical Aspect:</b>					
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Introduction to biochemistry</b>	-Definition -Classification of carbohydrates -biomolecule -biochemistry in medicine	1	2	a1, a2,b1,b2
2	<b>Carbohydrates</b>	-Definition -important of carbohydrate -classification of carbohydrate-types of isomer -cyclic form of carbohydrates -properties of carbohydrates -sugar derivatives -structure of monosaccharide disaccharides , poly saccharides.	3	6	a1-a3, b1 ,b2,c1- c3,d1
3	<b>Proteins</b>	-Definition of Protein -Amino acids ,classification -Protein function (important) -Peptide bond and polypeptide -protein structure -protein classification	2	4	a1,a2, a3,b1 ,b2,c1- c3,d1
4	<b>Enzyme</b>	-Definition -Classification of enzyme-mode of enzyme action -Factors affecting enzyme activity	2	4	a1,a2, a3,b1 ,b2,c1- c3,d1

		-Definition of Km and cofactor			
5	<b>Midterm exam</b>	MCQs, matching, short-answer,...etc.	1	2	a1,a2,a3 b1,b2
6	<b>Nucleic acids</b>	-Important of nucleic acid -Types of nucleic acid (DNA and RNA) -structure(nucleotide, nucleoside)	2	4	a1,a2, a3,b1 ,b2,c1- c3,d1
7	<b>Lipids</b>	-Definition ,important -Classification of lipids -Fatty acids - Classification of fatty acids -Essential ,non essential -saturated ,unsaturated -cholesterol structure, function -classification of lipoprotein Function of lipoprotein	2	4	a1,a2, a3,b1 ,b2,c1- c3,d1
8	<b>Vitamins</b>	-Definition, Classification of vitamins(water soluble, fat soluble ) and Deficiencies of vitamins	2	4	a1,a2, a3,b1 ,b2,c1- c3,d1
9	<b>Minerals</b>	<b>Minerals :</b> Calcium ,phosphate ,magnesium Water and minerals (Na <sup>+</sup> ,K <sup>+</sup> ,HCO <sub>3</sub> Cl)	1	2	a1,a2, a3,b1 ,b2,c1- c3,d1
10	<b>Final exam</b>	-Fill in the blank, MCQs, matching, short-answer and short essay questions.	1	2	a1-a3, b1 ,b2,c1-c3,
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	-Biosafety procedures in laboratory practice -Anticoagulants preparation, use, mode of action - Instruments and equipment in biochemistry lab.	1	2	a1, a2, b1,b2 c1- c3,d1
2	-Venous and capillary blood collection - Blood separation, plasma and serum preparation	1	2	a1, a2, b1,b2 c1- c3,d1
3	<b>Carbohydrate</b> Molish test Iodine test Benedict test	3	6	a1, a2, b1,b2 c1- c3,d1

	Bara food test Selwanof test			
4	<b>- Med-Term Exam.</b>	1	2	c1-c3,d1
5	<b>Protein</b> - Biurret test - Iso electric test - Heat and acetic acid test - Glycoxylic and test	3	6	a1, a2, b1,b2 c1- c3,d1
6	<b>Lipids identification</b> Cholesterol, Triglycerides, HDL,LDL	3	6	
6	<b>Enzymes kinetics</b>	1	2	a1,a2, a3,b1 ,b2,c1- c3,d1
7	<b>Review</b>	1	2	a1, a2, b1,b2 c1- c3,d1
8	<b>Final Exam</b>	1	2	a1, a2,a3 b1,b2 c1-c3
<b>Number of Weeks /and Units Per Semester</b>		15	30	

## V. Teaching strategies of the course:

- Interactive Lectures
- Dialogue and Discussion
- Self-Learning
- Presentation
- Seminars
- Brain storming
- Group discussion
- Analyzing , Reporting the results
- Lab. logbook and report
- Practical Training

## VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Written Exam
- Final Practical Exam
- Lab. logbook and reports
- Assignments &Homework
- Group work
- Oral discussion

## VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	<b>Assignment</b> : Searching information about related subjects of <b>fundamentals of biochemistry</b> in Medical Laboratory Technology	d1	3-13 <sup>th</sup>	5
TOTAL				<b>5</b>

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	3-13 <sup>th</sup>	5	5 %	d1
2	Quiz	6 <sup>th</sup>	5	5 %	a1,a2, a3 b1,b2
	Mid-Term Practical Exam	6 <sup>th</sup>	10	10 %	c1-c3,d1
3	Mid-Term Theoretical Exam	7 <sup>th</sup>	10	10 %	a1,a2, a3 b1,b2
4	Logbook(Practical report )	weekly	10	10%	c1-c3
5	Final Practical Exam	15 <sup>th</sup>	20	20%	a1,a2, a3,b1 ,b2,c1- c3
6	Final Theoretical Exam	16 <sup>th</sup>	40	40 %	a1,a2, a3,b1 ,b2,c1- c3
Total			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, Title, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ):

- 1 -Victor W. Rodwell, David A. Bender, Kathleen M. Botham, Peter J. Kennelly, P. Anthony Weil, (2018), **Harper's Illustrated Biochemistry 31th** edition, New York : Mcgraw-Hill Education,
- 2- R. A. Harvey PhD, D. R. Ferrier P. C. Champe (2018), **Biochemistry** (Lippincott's Illustrated Reviews Scies), 8<sup>th</sup> edition, Lippincott Williams & Wilkins, USA.

### 2- Essential References:

- 1- Rifai, Nader, Andrea R. Horvath and Carl T. Wittwer(2019). **Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics**. 8<sup>th</sup> ed. St. Louis, Elsevier,. (NEW EDITION)
- 2- MN Chatterjea, Rana shinde (2013), **Medical Biochemistry**, 8<sup>th</sup> edition, Jitendra P Vij, Panama.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- 1--<https://www.biochemistrv.org/>
2. [www.biochemi.org/bi/default.htm](http://www.biochemi.org/bi/default.htm)

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
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3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.



## Standard II: Course Identification and General Information:

1	Course Title:	Psychology				
2	Course Number & Code:					
3	Credit hours:	C.H				Total
		Th.	Pr.	Tut.	Tr.	
		1	NA	NA	NA	
4	Study level/year at which this course is offered:					
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Name of faculty member responsible for the course:					
8	Program (s) in which the course is offered:					
9	Language of teaching the course:					
10	Location of teaching the course:					
11	Prepared By:					
12	Approved By:					

## Standard III: Course Description:

In this course the learners will acquire understanding of the behavior of individuals. This course in psychology will expose the learners to the theories, perceptions and the explanations for patients and clients behavior and enable them to respond appropriately.

## Standard IV: Professional Information:

### Aims of The Course:

#### Brief summary of the knowledge or skill the course is intended to develop:

1. Demonstrate understanding of the uniqueness of individuals and its effect on their behavior.
2. Analyze methods of psychology, various cognitive processes, determinants and their applications.
3. Recognize motivation, emotions, stress, attitudes, personality and their influence on behavior.
4. Explain the psychological assessments and test.
5. Recognize the development stage of human according to various psychological theories.
6. Establish and maintain effective and appropriate therapeutic relationships.
7. Assist and support clients during stressful events and aid them in making informed decisions.

### Intended learning outcomes (ILOs) of the course:

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Explain the biology of Human behavior.	Lecture discussion Brain storming	Essay type Short answer
A2. Describe the psychometric assessments of cognitive processes	Lecture discussion Brain storming	Essay type Short answer

A3. Describe the concepts of behavior, conflicts, frustration, and conflict resolution	Lecture discussion Brain storming	Essay type Short answer
A4. Recognize the alterations in emotions	Lecture discussion Brain storming	Essay type Short answer
A5. Discuss the personality alterations according to various psychological theories.	Lecture discussion Brain storming	Essay type Short answer
A6. Identify the principles of growth and development	Lecture discussion Brain storming	Essay type Short answer
A7. Explain the psychological assessments tests	Lecture discussion Brain storming	Essay type Short answer

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Recognize motivation, emotions, stress, attitudes, personality and their influence on behavior.	Lecture discussion Role plays Case discussion Demonstration.	Essay type Short answer
B2. Analyze methods of psychology, various cognitive processes, determinants and their applications.	Lecture discussion Role plays Case discussion Demonstration.	Essay type Short answer
B3. Discuss the role of medical assistant in supporting and maintaining of client's psychological state.	Lecture discussion Role plays Case discussion Demonstration.	Essay type Short answer

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
Not Applicable		

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
Not Applicable		

## v: Course Content:

### 1 – Course Topics/Items:

**a – Theoretical Aspect:**

Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Introduction to psychology	<ul style="list-style-type: none"> <li>▪ History and origin of science of psychology</li> <li>▪ Definitions &amp; Scope of Psychology</li> <li>▪ Relevance to medical assistant, Methods of Psychology</li> </ul>	1	2	B3
2	Biology of behavior	<ul style="list-style-type: none"> <li>▪ Body mind relationship modulation process in health and illness</li> <li>▪ Genetics and behavior:</li> <li>▪ Heredity and environment</li> <li>▪ Brain and behavior: Nervous System, Neurons and synapse,                             <ul style="list-style-type: none"> <li>▪ Association Cortex, Rt and Lt Hemispheres</li> </ul> </li> <li>▪ Psychology of Sensations</li> <li>▪ Muscular and glandular controls of behavior</li> <li>▪ Nature of behavior of an organism/Integrated responses</li> </ul>	1	2	A1
3	Cognitive processes	<ul style="list-style-type: none"> <li>▪ Attention: Types, determinants, Duration &amp; degree, alterations</li> <li>▪ Perception: Meaning, Principles, factors affecting, Errors,</li> <li>▪ Learning: Nature, Types, learner and learning, Factors influencing, laws and theories, process, transfer, study habits</li> <li>▪ Memory: Meaning, Types, Nature Factors influencing, Development Theories and methods of memorizing and Forgetting</li> <li>▪ Thinking: Types and levels, stages of development, Relationship with language and communication</li> <li>▪ Intelligence: Meaning, classification, uses, theories</li> <li>▪ Aptitude: Concept, types, Individual differences and variability</li> <li>▪ Psychometric assessments of cognitive processes</li> </ul>	4	8	A2, B2

		<ul style="list-style-type: none"> <li>▪ Alterations in cognitive processes <ul style="list-style-type: none"> <li>▪ Applications</li> </ul> </li> </ul>			
4	Midterm exam	Midterm exam	2	4	A5
5	Motivation and Emotional Processes	<ul style="list-style-type: none"> <li>▪ Motivation: Meaning, Concepts, Types, Theories, Motives and behavior, Conflicts and frustration, conflict resolution <ul style="list-style-type: none"> <li>▪ Emotions &amp; stress <ul style="list-style-type: none"> <li>○ Emotion: Definition, components, Changes in emotions, theories emotional adjustments, emotions in health and illness <ul style="list-style-type: none"> <li>○ Stress: stressors, cycle, effect, adaptation &amp; coping <ul style="list-style-type: none"> <li>▪ Attitude: Meaning, nature, development, factors affecting, Behaviour and attitudes <ul style="list-style-type: none"> <li>▪ Attitudinal change</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> <li>Psychometric assessments of emotions and attitudes <ul style="list-style-type: none"> <li>▪ Alterations in emotions <ul style="list-style-type: none"> <li>▪ Applications</li> </ul> </li> </ul> </li> </ul>	2	4	A3, A4, B1
6	Developmental and Personality Theories (ISTS)	<ul style="list-style-type: none"> <li>- Freud, Jung, Sullivan, Piaget, Rogers, Erikson, Others <ul style="list-style-type: none"> <li>▪ Psychometric assessments of personality <ul style="list-style-type: none"> <li>▪ Alterations in personality <ul style="list-style-type: none"> <li>▪ Applications</li> </ul> </li> </ul> </li> </ul> </li> </ul>	1	2	A5, B1
7	Principles of Growth and Development Life-Cycle	<ul style="list-style-type: none"> <li>▪ Pre-Natal, neo-natal, infant, toddler, pre-school child, school child, adolescent, <ul style="list-style-type: none"> <li>▪ Psychology of groups</li> </ul> </li> </ul>	3	6	A6
8	Psychological assessment & tests	<ul style="list-style-type: none"> <li>▪ Types, development, Characteristics, Principles, Uses, Interpretations. <ul style="list-style-type: none"> <li>▪ Role of nurse in psychological assessment and in the supporting and maintaining of client's psychological state.</li> </ul> </li> </ul>	1	2	A7, B3
11	Final exam	Final exam	1	2	A1, A2, A3, A4, A5, A6,

					A7, B1, B3
<b>Number of Weeks /and Units Per Semester</b>			<b>15</b>	<b>30</b>	

<b>B – Practical Aspect:</b>				
<b>Order</b>	<b>Task/ Experiments</b>	<b>Number of Weeks</b>	<b>contact hours</b>	<b>Learning Outcomes</b>
	Not Applicable			
<b>Number of Weeks /and Units Per Semester</b>				

<b>V. Teaching strategies of the course</b>
1. Lecture 2. Discussion 3. Brainstorming 4. Case discussions

<b>VI. Assignments</b>				
<b>No</b>	<b>Assignments</b>	<b>Aligned CILOs (symbols)</b>	<b>Week Due</b>	<b>Mark</b>
<b>1</b>	Role of medical assistant in the supporting and maintaining of client's psychological state.	A3, A4, A7, B3	<b>2-10</b>	<b>10</b>

<b>VII. Schedule of Assessment Tasks for Students During the Semester</b>					
<b>No</b>	<b>Assessments Methods</b>	<b>Week due</b>	<b>Mark</b>	<b>Proportion of Final Assessments</b>	<b>Aligned Course Learning Outcomes</b>
<b>1</b>	Attendance and activities	15 <sup>th</sup> week	<b>5</b>	<b>5%</b>	A1, A2,A3, A5, B1,B2
<b>2</b>	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	<b>5</b>	<b>5%</b>	A3, A4, A7, B3
<b>3</b>	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	<b>20</b>	<b>20%</b>	A1, A2, B2, B3
<b>4</b>	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	<b>70</b>	<b>70%</b>	A1, A2, A3, A4, A5, A6, A7, B1, B3

Clinical Part					
No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
	<b>Not Applicable</b>				

## VII: Learning Resources:

### 1. Required Textbook(s) ( maximum two ).

1. Feldman. R. H (1996). Understanding Psychology. New Delhi: Tata McGraw hill.  
Morgan et al (2003). Introduction to Psychology. New Delhi: Tata McGraw hill.

### 1. Essential References.

1. Lefton( 2009). Psychology. Boston: Alwin & Bacot Company.  
Mangal, S.K (2002). Advanced Educational Psychology. New Delhi: prentice hall.

### 2. Electronic Materials and Web Sites *etc.*

1. www.PSYCHOLOGY .com
2. Encyclopedia of psychology, www.psychology .org
3. American Psychological Association, www.apa.org
4. Guides to resources, library.ust.hk
5. <http://www.google.com>

## IX. Course Policies:

<b>1</b>	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
<b>2</b>	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
<b>3</b>	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
<b>4</b>	Assignments &Projects: Assignments and projects will be assessed individually unless the teacher request for group work
<b>5</b>	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
<b>6</b>	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## Standard II: Course Identification and General Information:

1	Course Title:	Public Health				
2	Course Number & Code:					
3	Credit hours:	C.H				Total
		Th.	Pr.	Tut.	Tr.	
		2	NA	NA	NA	2
4	Study level/year at which this course is offered:					
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Name of faculty member responsible for the course:					
8	Program (s) in which the course is offered:					
9	Language of teaching the course:					
10	Location of teaching the course:					
11	Prepared By:					
12	Approved By:					

## Standard III: Course Description:

This course is designed to help students acquire the concept of health, understanding of the principles of environmental health and education of community members about health, personal health and proper sanitation.

## Standard IV: Professional Information:

### Aims of The Course:

#### Brief summary of the knowledge or skill the course is intended to develop:

1. Describe the concept of environmental health
2. Describe the principles of environmental health
3. Demonstrate skills to apply these principles in the pursuing care of the patients/clients as well as in their own healthy living.
4. Describe the environmental health hazards and health problems of the country and services available to meet these.

### Intended learning outcomes (ILOs) of the course:

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Discuss the basic principles of environmental health	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A2. Recognize water borne diseases	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type

A3. Methods of controlling pollutions	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A4. Determine the requirements of healthy housing conditions	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A5. Discuss the importance of proper sanitation	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A6. Identify the components of personal health	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A7. Recognize methods of insects control	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A8. List of diseases transported by insects	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A9. Describe the components of school health program.	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type
A10. Advice appropriate balance diet and suggest any dietary modification	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Compare between methods of water purification	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type.
B2. Differentiate between natural and artificial lighting	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type.
B3. Discuss methods used to control cholera in your community	Lecture - Discussion Demonstration Brainstorming	Essay question Short answer question Objective type.

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
C1. Perform water purification using chlorine or solar	Lecture Discussion Class-room Conversation Assignments	Essay question Short answer question Objective type



C2. Design a health teaching program to maintain proper sanitation	Lecture Discussion Class-room Conversation Assignments	Essay question Short answer question Objective type

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
D1. Engage in educational activities related to environmental health issues.	Role play Practice session Supervised clinical practice	Assess role plays with check- list on teaching techniques Assess health talk with checklist Assess performance with rating scale
D2. Employ effective communication and accurate documentation while dealing and/or managing environmental problems	Role play Practice session Supervised clinical practice	Assess role plays with check- list on teaching techniques Assess health talk with checklist Assess performance with rating scale

v: Course Content:					
1 – Course Topics/Items:					
a – Theoretical Aspect:					
Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Introduction	<ul style="list-style-type: none"> <li>▪ Components of environment</li> <li>▪ Importance of environmental health.</li> <li>▪ Concepts of environmental health</li> <li>▪ Principles of environmental health <ul style="list-style-type: none"> <li>▪ Personal health</li> </ul> </li> </ul>	2	4	A1, A6
2	Water supply	<ul style="list-style-type: none"> <li>▪ Safe and wholesome water</li> <li>▪ Uses of Water</li> <li>▪ Water pollution</li> <li>▪ Water borne diseases.</li> <li>▪ Water purification</li> </ul>	2	4	A2, A3, B1, C1

3	Air & Noise Pollution	<ul style="list-style-type: none"> <li>▪ Air</li> <li>▪ Air pollution</li> <li>▪ Prevention and control of air Pollution Noise</li> <li>▪ Source of noise</li> <li>▪ Community noise levels</li> <li>▪ Effects of noise</li> <li>▪ Noise control</li> </ul>	1	2	A3
4	Housing condition	<ul style="list-style-type: none"> <li>▪ Site</li> <li>▪ Basic amenities</li> <li>▪ Types &amp; standard of ventilation</li> <li>▪ Requirements of good lighting. <ul style="list-style-type: none"> <li>▪ Natural and artificial lighting.</li> </ul> </li> </ul>	2	4	A4, B2
5	Mid Term Exam	Mid Term Exam	1	2	A1, A2, A3, A4, B1, B2, C1
6	Environmental sanitation	<ul style="list-style-type: none"> <li>▪ Refuse</li> <li>▪ Excreta</li> <li>▪ Sewage</li> <li>▪ Health hazards of these wastes</li> <li>▪ Collection removal and disposal of these wastes</li> </ul>	2	4	A5
7	Arthropods of Public Health	<ul style="list-style-type: none"> <li>▪ Mosquitoes, Housefly</li> <li>▪ Sand fly, human louse, etc.</li> <li>▪ Rodents.</li> <li>▪ Control measures for arthropods</li> </ul>	2	4	A7, A8
8	School health	<ul style="list-style-type: none"> <li>▪ Periodic medical examination of the children and teachers.</li> <li>▪ Immunization of the children in the school.</li> <li>▪ Health promotion &amp; education</li> <li>▪ Mid-day meals.</li> <li>▪ Requirements for school health</li> <li>▪ Facilities for school health</li> </ul>	2	4	A9
9	Food	<ul style="list-style-type: none"> <li>▪ Common sources of various nutrients and special nutritional requirements</li> <li>▪ Nutritional assessment</li> </ul>	1	2	A10

		(clinical, anthropometric and diet survey tools). <ul style="list-style-type: none"> <li>▪ Appropriate balance diet and suggested dietary modification</li> <li>▪ Common nutrition related health disorders (like protein energy malnutrition, obesity, anemia, iodine deficiency, fluorosis, food toxin diseases) and their control and management.</li> <li>▪ Nutritional promotion and education.</li> <li>▪ Elements of healthy foods</li> </ul>			
<b>8</b>	<b>Final Term Exam</b>		<b>1</b>	<b>2</b>	A5, A7, A8, A9, A10,
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

<b>V. Teaching strategies of the course</b>	
1. Lecture - Discussion 2. Demonstration; 3. Brainstorming 4. Case discussions / Seminar	

<b>VI. Assignments</b>				
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
<b>1</b>	Water purification	A2, A3, B1, C1	<b>4-7</b>	<b>2.5</b>
<b>2</b>	Mosquitoes control	A7, A8	<b>8-12</b>	<b>2.5</b>

<b>VII. Schedule of Assessment Tasks for Students During the Semester</b>					
No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
<b>1</b>	Attendance and activities	15 <sup>th</sup> week	<b>5</b>	<b>5%</b>	A1, A2, A3, A4, A5, A7, A8, A9, A10, B1, B2, C1
<b>2</b>	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	<b>5</b>	<b>5%</b>	A2, A3, A7, A8, B1, C1

3	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	20	20%	A1, A2, A3, A4, B1, B2, C1
4	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	70	70%	A5, A7, A8, A9, A10
	Number of Weeks /and Units Per Semester		100	100%	

## VII: Learning Resources:

### 3. Required Textbook(s) ( maximum two ).

1. James F, Robert R. Pinger& Jerome E. KotEcli, (2002), An Introduction to Community Health 4th edition.
2. Lundy K. and Jons S., (2009): Community Health Nursing, Caring for Public Health. 2nd ed Jones and Barllett Comp.

### 5. Essential References.

3. Basavanthappa. BT., (2008): Community and public Health Nursing, 2nd ed., Mosby An Affiliate of Elsevier Co., United States of America.
4. Maurer F. and Smith C. (2009): Community / Public Health Nursing Practice , Health for all Families and pupulations. Sunders, Elsever.

### 6. Electronic Materials and Web Sites *etc.*

1. <http://www.moHp.gov.eg>
2. <http://www.google.com>

## IX. Course Policies:

1	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4	Assignments &Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## I. Course Identification and General Information:

1	Course Title:	Fundamental of Nursing			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Field	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:	3\2			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

The course concerns on the development of student's skills and practices needed in hospital setting, such as admission and discharge, vital signs, physical examination and mobility and immobility. In clinical training the course teaches infection control, hygienic measures, medication administration and wound care.

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

G. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Explain the principles of admission and discharge, infection control and procedures and techniques of wound care.	A1	
a2	Demonstrate understanding of health assessment, vital signs, personal hygiene, mobility and immobility and medication administration	A3	

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Differentiate between medical and surgical asepsis	B2	
b2	Recognize the difference between normal and abnormal assessment data, normal and abnormal vital signs through the process of critical thinking.	B3	

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Apply appropriate infection prevention practices during dressing, hygiene, admission, physical examination and medication administration	C1	
c2	Implement special nursing therapy and measures in clinical setting such as: medication administration, wound care, infection control, vital signs and hygiene	C2	

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Utilizes the value of inter-professional collaborative practice, coordination and interpersonal communication skills when dealing with colleagues		
d2	Display high degree of personal commitment, self-developing and cooperation with his colleagues.		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Explain the principles of admission and discharge, infection control and procedures and techniques of wound care.	<ul style="list-style-type: none"> <li>▪ Lecture</li> <li>▪ Seminar (discussion)</li> <li>▪ Role play</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tests</li> <li>▪ Midterm &amp; Final written examination</li> <li>▪ Case &amp; topic presentation</li> </ul>
a2	Demonstrate understanding of health assessment, vital signs, personal	<ul style="list-style-type: none"> <li>▪ Lecture</li> <li>▪ Seminar (discussion)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tests</li> <li>▪ Oral examination (Viva)</li> </ul>

	hygiene, mobility and immobility and medication administration		<ul style="list-style-type: none"> <li>▪ Midterm &amp; Final written examination</li> <li>▪ Case &amp; topic presentation</li> </ul>
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**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Differentiate between medical and surgical asepsis	<ul style="list-style-type: none"> <li>▪ Lecture</li> <li>▪ Seminar (discussion)</li> <li>▪ Group work (cooperative Learning)</li> <li>▪ Individual work</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tests</li> <li>▪ Oral examination (Viva)</li> <li>▪ Midterm &amp; Final written examination</li> <li>▪ Case &amp; topic presentation</li> </ul>
b2	Recognize the difference between normal and abnormal assessment data, normal and abnormal vital signs through the process of critical thinking.	<ul style="list-style-type: none"> <li>▪ Lecture</li> <li>▪ Seminar (discussion)</li> <li>▪ Group work (cooperative Learning)</li> <li>▪ Individual work</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tests</li> <li>▪ Oral examination (Viva)</li> <li>▪ Midterm &amp; Final written examination</li> <li>▪ Case &amp; topic presentation</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Apply appropriate infection prevention practices during dressing, hygiene, admission, physical examination and medication administration	<ul style="list-style-type: none"> <li>▪ Seminar (discussion)</li> <li>▪ Individual and group work</li> <li>▪ Role play</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tests</li> <li>▪ Midterm &amp; Final clinical exams</li> </ul>
c2	Implement special nursing therapy and measures in clinical setting such as: medication administration, wound care, infection control, vital signs and hygiene	<ul style="list-style-type: none"> <li>▪ Seminar (discussion)</li> <li>▪ Individual and group work</li> <li>▪ Role play</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tests</li> <li>▪ Midterm &amp; Final clinical exams</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Utilizes the value of inter-professional collaborative practice, coordination and interpersonal	<ul style="list-style-type: none"> <li>▪ Group work</li> <li>▪ Case Study</li> <li>▪ Role play</li> </ul>	<ul style="list-style-type: none"> <li>▪ Evaluation of group work</li> </ul>

	communication skills when dealing with colleagues		<ul style="list-style-type: none"> <li>▪ Evaluation of student works</li> <li>▪ Observation</li> </ul>
d2	Display high degree of personal commitment, self-developing and cooperation with his colleagues.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Hospital admission and discharge and Health protection and asepsis	<b>Hospital admission and discharge</b> <ul style="list-style-type: none"> <li>▪ Admission to the hospital</li> <li>▪ Unit and its preparation</li> <li>▪ Admission procedure</li> <li>▪ Special considerations</li> <li>▪ Medico-legal issues</li> <li>▪ Roles &amp; responsibilities</li> <li>▪ Common response to admission</li> <li>▪ Discharge from the hospital</li> <li>▪ Types: Planned discharge,</li> <li>▪ LAMA and abscond, Referrals and transfers</li> <li>▪ Discharge Planning</li> <li>▪ Discharge procedure</li> <li>▪ Care of the unit after discharge</li> </ul>	1	2	a1, c1, d1
2		<b>Health protection and asepsis Infection control</b> <ul style="list-style-type: none"> <li>▪ Nature of infection</li> <li>▪ Chain of infection transmission</li> <li>▪ Defenses against infection: natural and acquired hospital acquired infection (Nosocomial infection)</li> <li>▪ Concept of asepsis</li> <li>▪ Medical asepsis <ul style="list-style-type: none"> <li>- Hand washing: simple, hand antisepsis</li> <li>- Personal protecting equipment (PPE): types, uses and technique of wearing and removing</li> <li>- Standard safety precautions (Universal precautions)</li> </ul> </li> <li>▪ Surgical asepsis <ul style="list-style-type: none"> <li>- Definition</li> <li>- Principles of surgical asepsis</li> <li>- Method of sterilization</li> </ul> </li> </ul>	2	4	a1, b1, c1, c2, d1



		<ul style="list-style-type: none"> <li>▪ Biomedical waste management: <ul style="list-style-type: none"> <li>- Decontamination of hospital waste</li> </ul> </li> </ul>			
3	<b>Vital signs and Health assessment</b>	<p><b>Vital signs</b></p> <ul style="list-style-type: none"> <li>○ Guidelines for taking vital signs:</li> </ul> <p><b>Body temperature:</b></p> <ul style="list-style-type: none"> <li>○ Physiology, Regulation, Factors affecting body temperature,</li> <li>○ Assessment of body temperature: sites, equipments and technique, special considerations</li> <li>○ Temperature alterations: hyperthermia, Hypothermia</li> </ul> <p><b>Pulse:</b></p> <ul style="list-style-type: none"> <li>✓ Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse</li> <li>✓ Assessment of pulse: sites, location, equipments and technique, special considerations</li> <li>✓ Alterations in pulse:</li> </ul> <p><b>Respiration:</b></p> <ul style="list-style-type: none"> <li>✓ Physiology and Regulation, Mechanics of breathing Characteristics of the respiration, Factors affecting respiration</li> <li>✓ Assessment of respirations: technique, special considerations</li> <li>✓ Alterations in respiration</li> </ul> <p><b>Blood pressure:</b></p> <ul style="list-style-type: none"> <li>✓ Assessment of blood pressure: sites, equipments and technique, special considerations</li> <li>✓ Alterations in blood pressure</li> </ul> <p><b>Recording of vital signs</b></p>	2	4	a2, b2, c2, d1
4		<p><b>Health assessment</b></p> <ul style="list-style-type: none"> <li>○ Purposes</li> <li>○ Process of Health assessment <ul style="list-style-type: none"> <li>▪ Health history</li> <li>▪ Physical examination:</li> </ul> </li> </ul>	2	4	a2, b2, d1

		<ul style="list-style-type: none"> <li>▪ Methods- inspection, Palpation, Percussion, Auscultation,</li> <li>▪ Preparation for examination: patient and unit.</li> <li>▪ General assessment</li> <li>▪ Assessment of each body system</li> <li>▪ Recording of health assessment.</li> </ul>			
5		<b>Midterm exam</b>	1	2	a1, a2, b1, b2, c1, c2, d1
6	<b>Administration of Medications</b>	<b>Administration of Medications:</b> <ul style="list-style-type: none"> <li>•General Principles/ consideration</li> <li>Principles: 10 rights of Medication <ul style="list-style-type: none"> <li>▪ Administration; special consideration; Prescriptions;</li> <li>▪ Routes of administration</li> <li>▪ Storage and maintenance of drugs</li> <li>▪ Toxic Effects, Idiosyncratic Reactions, Allergic Reactions, Drug Tolerance, Drug Interactions,</li> <li>▪ Errors in Medication administration</li> <li>▪ Dosage Calculation, Terminologies and abbreviations used in prescriptions of medications</li> <li>▪ Storage and maintenance of drugs and Nurses responsibility</li> <li>▪ Oral Drugs Administration: Sub lingual and Buccal:</li> <li>▪ Parenteral therapies: ID, SC, IM, IV</li> <li>▪ Types of syringes, needles, canula, and infusion sets</li> <li>▪ Recording and reporting of medications administered</li> </ul> </li> </ul>	2	4	a2, c1, c2, d1
7	Supporting physiologic health patterns	<b>Hygiene:</b> <ul style="list-style-type: none"> <li>▪ Introduction</li> <li>▪ Factors Influencing Hygienic Practice</li> </ul>	1	2	a2, c1, c2, d1

		<ul style="list-style-type: none"> <li>▪ Hygienic care: Care of the Skin-Bath and pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears, and Nose</li> <li>▪ Bathing : types and purposes</li> <li>▪ The nursing interventions that promote a client's personal hygiene.</li> </ul>			
8		<p>Mobility and immobility</p> <ul style="list-style-type: none"> <li>▪ Physiology of mobility and immobility. <ul style="list-style-type: none"> <li>- Principles of Body Mechanics</li> <li>- Maintenance of normal body alignment</li> <li>- Nursing interventions for impaired body Alignment and Mobility: assessment, types</li> </ul> </li> <li>▪ Measures toward preventing problems of immobility.</li> <li>▪ Positioning a client in bed</li> <li>▪ Body mechanics</li> <li>▪ Maintaining body alignment: positioning</li> <li>▪ Guides to move and turn and to transfer a client.</li> <li>▪ Maintaining body alignment</li> </ul>	1	2	a2, c2, d1
9		<p><b>Wounds care:</b></p> <ul style="list-style-type: none"> <li>▪ Types, Classifications, wound Healing Process, Factors affecting Wound, Complications of Wound Healing</li> <li>▪ Care of wound: types, equipments, procedure and special considerations</li> <li>▪ Dressings, Suture Care,</li> <li>▪ Care of Drainage</li> <li>▪ Application of Bandages, Binders, Splints &amp; Slings</li> </ul>	2	4	a1, c1, c2, d1
10	Rest and Sleep.	<ul style="list-style-type: none"> <li>- physiology of sleep. - Stages of sleep. - Sleep cycle.</li> <li>- Function of sleep. - Normal sleep patterns and requirements</li> <li>- Factors affecting sleep. - Common sleep disorders.</li> </ul>	1	2	a2, b2, c2 d2

	<b>Final exam</b>	1	2	
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	- <b>Admission &amp; discharge</b>	1	2	c1
2	<b>Asepsis</b> - Hand washing & hand antisepsis - Donning sterile gloves & gown	2	4	c2
3	<b>Measure VS</b> - <b>Temperature</b> - <b>Pulse</b> - <b>Respiration</b> - <b>BP</b>	2	4	c2
4	- Head to toes examination	1	2	c1
5	- Midterm exam	1	2	c1, c2
6	<b>Hygiene</b> - Oral hygiene: - Hair shampoo - Bed bath - Partial bath	2	4	c1
7	<b>Medication Administration</b> - <b>ID Medication</b> - <b>SC Medication</b> - <b>IM Medication</b> - <b>Venipuncture</b> - <b>IV Canula</b>	3	6	c1, c2
8	<b>Mobility</b> - Maintaining body alignment: - Positioning - Moving - Lifting	1	2	a2
9	- Wound care	1	2	c1
10	<b>Final exam</b>	1	2	a2, c1, c2
<b>Number of Weeks /and Units Per Semester</b>				

### V. Teaching Strategies of the Course:

- Interactive lecture

- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

## VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Presentation on (infectious diseases)	10 <sup>th</sup> Week	5	c1, c2, d1
2	Visits CSSD write observation report	12 <sup>th</sup> Week	5	c1, c2, d1
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignment	5 <sup>th</sup> - 12 <sup>th</sup> week	10	10%	c1, c2, d1
2	First clinical exam	4 <sup>th</sup> week	10	10%	c1, c2, d1
3	Midterm exam	7 <sup>th</sup> Week	20	20%	c1, c2, d1
4	Log book	2 <sup>nd</sup> -13 <sup>th</sup> Week	20	20%	c1, c2, d1
	Internal Practical Exam (Oral & Practical)	14 <sup>th</sup> Week	40	40%	c1, c2, d1
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

<b>1- Required Textbook(s) ( maximum two ): مثال example</b>	
1.	Kozier and Erb's (2018) FUNDAMENTALS OF NURSING Concepts, Process and Practice 4 <sup>th</sup> Ed Australian, New York, Addison Wesley Longman
2.	Taylor's (2019). Clinical Nursing Skills A Nursing Process Approach 4 <sup>th</sup> Ed. LWW
<b>2- Essential References.</b>	
1.	Brunner & Suddarth's (2018). Textbook of Medical-Surgical Nursing 14 <sup>th</sup> Ed 2018. Philadelphia, Lippincott – Wilkins & Wilkins.
2.	Perry & Potter (2020). Fundamentals of Nursing-Elsevier 10 <sup>th</sup> Ed
3.	Lippincott (2019). Manual Of Nursing Practice 11 <sup>th</sup> Ed
4.	Concept Based Clinical Nursing Skills (2020). Fundamental to Advanced 1 <sup>st</sup> Ed
<b>3- Electronic Materials and Web Sites etc.</b>	
1.	<a href="http://www.ANA.com">www.ANA.com</a>
2.	<a href="http://www.ASCO.com">www.ASCO.com</a>

<b>X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)</b>	
<b>1</b>	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>2</b>	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
<b>4</b>	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
<b>6</b>	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## Standard II: Course Identification and General Information:

1	Course Title:	Microbiology & Parasitology				
2	Course Number & Code:					
3	Credit hours:	C.H				Total
		Th.	Pr.	Tut.	Tr.	
		2	NA	NA	NA	2
4	Study level/year at which this course is offered:					
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Name of faculty member responsible for the course:					
8	Program (s) in which the course is offered:					
9	Language of teaching the course:					
10	Location of teaching the course:					
11	Prepared By:					
12	Approved By:					

## Standard III: Course Description:

This course is designed to enable students to acquire knowledge, attitude and behaviors of fundamentals of microbiology and parasitology, and its effects on human. It also provides understanding on causes of diseases, diagnosis, treatments and preventive measures.

## Standard IV: Professional Information:

### Aims of The Course:

This course aims to acquire student:

1. Describes structure, classification morphology and growth of bacteria
2. Identifies microorganisms and describe the different disease producing organisms
3. Explains the concept of immunity, hyper sensitivity and immunization
4. Applies staining techniques, Gram staining, Acid fast staining, Hanging drop preparation and culture various medias.
5. Collects, handle and transport of various specimens.
6. Identifies the classification, types, morphology, lifecycle, pathogenicity, transmission, diagnosis and pathology of various parasites.
7. Selects the appropriate methods of control and prevention.
8. Determines the investigation of parasites

### Intended learning outcomes (ILOs) of the course:

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. List the common microorganisms	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type

A2. Identifies microorganisms and describe the different disease producing organisms	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A3. Describe method of control for microorganisms	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A4. Explains the concept of immunity, hyper sensitivity and immunization	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A5. Discuss the classification of parasites	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A6. Identify classification of protozoa	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A7. Discuss the prevention and control of giardia lamblia	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A8. Recognize the life cycle of malaria	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A9. Identify classification of helminths	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type
A10. List common parasitic diseases	Lecture Discussion Demonstration Brain storming	Short answer questions Objective type

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Compare between the growth of bacteria and viruses	Lecture discussion Demonstration Brain storming	Short answer questions Objective type



B2. Discuss the effect of parasite on the host	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
B3. Different between Entamoeba histolytica and Entamoeba coli ciliate	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
B4. Compare between visceral & cutaneous Leishmaniasis	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
B5. Discuss malaria control	Lecture discussion Demonstration Brain storming	Short answer questions Objective type

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
C1. Discuss collection, handling, and transportation of various specimens	Lab Practice Supervised Clinical practice	Short answer questions Objective type
C2. Determines the lab investigations for Common parasites.	Lab Practice Supervised Clinical practice	Short answer questions Objective type

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
Not Applicable		

## v: Course Content:

### 1 – Course Topics/Items:

#### a – Theoretical Aspect:

Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	General characteristics of microbes	<ul style="list-style-type: none"> <li>▪ Definition</li> <li>▪ Types (bacteria, virus, fungi, ...)</li> <li>▪ Characteristics</li> <li>▪ Structure and classification of microbes</li> <li>▪ Growth and nutrition of microbes</li> <li>▪ Multiplication</li> <li>▪ Lab investigation</li> </ul>	2	4	

		<ul style="list-style-type: none"> <li>▪ Culture &amp; sensitivity</li> </ul>			
2	Pathogenic organisms	<ul style="list-style-type: none"> <li>▪ Micro-organisms</li> <li>▪ Bacteria <ul style="list-style-type: none"> <li>- Cocci- gram positive and gram negative</li> <li>- Bacilli-gram positive and gram negative</li> <li>- Spirochaete</li> <li>- Mycoplasma</li> <li>- Rickettsiae</li> <li>- Chlamydiae</li> </ul> </li> <li>▪ Viruses</li> <li>▪ Fungi-superficial and deep mycoses</li> <li>▪ Rodents &amp; vectors characteristics, source, portal of entry, transmission of infection</li> <li>▪ Identification of disease producing micro-organisms</li> <li>▪ Collection, handling and transportation of various specimens</li> <li>▪ Lab investigation for microorganisms</li> <li>▪ Method of controlling micro-organisms</li> </ul>	3	6	
3	Immunity	<ul style="list-style-type: none"> <li>▪ Immunity-Types, classification</li> <li>▪ Antigen and antibody Reaction</li> <li>▪ Hypersensitivity-skin test</li> <li>▪ Serological tests</li> <li>▪ Immunoprophylaxis</li> <li>✓ Vaccines &amp; sera –types, classification, storage &amp; handling</li> <li>✓ Immunization for various diseases</li> </ul>	1	2	
4	Midterm Exam	Midterm Exam	1	2	
Part II: Parasite					
5	Parasites	<ul style="list-style-type: none"> <li>▪ Definition</li> <li>▪ Types</li> <li>▪ Host, Types of host</li> <li>▪ Definition and example for types of parasite</li> <li>▪ Effect of parasite on the host</li> <li>▪ Types of vector</li> </ul>		2	

		<ul style="list-style-type: none"> <li>▪ Source of infection (food &amp; drink, soil and water, vector, direct contact and congenial)</li> <li>▪ Mode of infection</li> <li>▪ Classification</li> <li>✓ Protozoa</li> <li>✓ Helminthes</li> <li>✓ Arthropods</li> <li>▪ Class and example for all Protozoa</li> </ul>	1		
6	Protozoa	<ul style="list-style-type: none"> <li>▪ General characteristic</li> <li>✓ Morphology</li> <li>✓ Biological feature</li> <li>✓ Multiplication</li> <li>✓ Nutrient &amp; locomotion</li> <li>▪ Classification (flagellate, ciliate, amoebae, sporozoa)</li> <li>▪ Amoebae</li> <li>▪ Entamoeba histolytica</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> <li>✓ pathogenesis</li> <li>✓ Diagnosis</li> <li>✓ Prevention &amp; control</li> <li>▪ Different between Entamoeba histolytica and Entamoeba. coli ciliate</li> <li>▪ Bantium coli</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> <li style="padding-left: 20px;">✓ pathogenesis</li> <li>✓ Diagnosis</li> <li style="padding-left: 20px;">✓ Prevention &amp; control</li> </ul>	1	2	
7	Flagellates	<ul style="list-style-type: none"> <li>▪ Intestine &amp; flagellates</li> <li>Giardia lamblia</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> <li>✓ pathogenesis</li> <li>✓ Diagnosis</li> <li>✓ Prevention &amp; control</li> <li>▪ Genital Trichomonas vaginalis</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> <li>✓ pathogenesis</li> <li>✓ Diagnosis</li> <li>✓ Prevention &amp; control</li> </ul>	1	2	
8	Blood flagellates	<ul style="list-style-type: none"> <li>▪ Leishmanias (Visceral &amp; cutaneous)</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> </ul>	1	2	

		<ul style="list-style-type: none"> <li>✓ pathogenesis</li> <li>✓ Diagnosis</li> <li>✓ Prevention &amp; control</li> </ul>			
9	Sporozoa	<ul style="list-style-type: none"> <li>▪ Malaria parasites (Plasmodium Falciparum, vivax)</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> <li>✓ pathogenesis</li> <li>✓ Diagnosis</li> <li>✓ Prevention &amp; control</li> </ul>	1	2	
10	Helminthes	<ul style="list-style-type: none"> <li>▪ Classification</li> <li>✓ Nematodes</li> <li>✓ Cestodes</li> <li>✓ Trematodes</li> </ul>	1	2	
11	Schistosoma	<ul style="list-style-type: none"> <li>▪ Schistosoma</li> <li>✓ Definition</li> <li>✓ Morphology,</li> <li>✓ life cycle,</li> <li>✓ pathogenesis</li> <li>✓ Diagnosis</li> <li>✓ Prevention &amp; control</li> </ul>	1	2	
12	<b>Final Term Exam</b>		1	2	
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

<b>V. Teaching strategies of the course</b>	
<ol style="list-style-type: none"> <li>1. Lecture – Discussion</li> <li>2. Demonstration</li> <li>3. Brainstorming</li> </ol>	

<b>VI. Assignments</b>				
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Vaccine's sera-types, classification, storage & handling		4-7	2.5
2	Life cycle, pathogenesis, diagnosis, prevention and control of malaria.		8-12	2.5

<b>VII. Schedule of Assessment Tasks for Students During the Semester</b>
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No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
1	Attendance and activities	15 <sup>th</sup> week	10	10%	
2	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	10	10%	
3	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	20	20%	
4	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	60	60%	

## VII: Learning Resources:

### 1. Required Textbook(s) (maximum two ).

1. Greenwood E (2001). Medical Microbiology. Churchill livingstone Edinburgh, London.

### 2. Essential References.

7. Foundation of Microbiology (2003). 2<sup>nd</sup> ed. Talaro and A. Talaro, published by William Brown Publishers.

### 3. Electronic Materials and Web Sites etc.

1. [Http:// www.google. Com](http://www.google.com)
2. [Http:// www.yahoo.com](http://www.yahoo.com)

## IX. Course Policies:

1	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## Standard II: Course Identification and General Information:

1	Course Title:	Infection control basics				
2	Course Number & Code:					
3	Credit hours:	C.H				Total
		Th.	Pr.	Tut.	Tr.	
		1	2	NA	NA	2
4	Study level/year at which this course is offered:					
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Name of faculty member responsible for the course:					
8	Program (s) in which the course is offered:					
9	Language of teaching the course:					
10	Location of teaching the course:					
11	Prepared By:					
12	Approved By:					

## Standard III: Course Description:

Each year, lives are lost due to the spread of infections in hospitals and other healthcare settings. Infection control procedures are a vital part of health care and patient safety measures used by every member of the healthcare team both in the United States and globally.

## Standard IV: Professional Information:

### Aims of The Course:

#### Brief summary of the knowledge or skill the course is intended to develop:

1. Identify the role of healthcare-associated infections in patient safety.
2. List the five most common, preventable healthcare-associated infections.
3. Explain the human biome.
4. Discuss the five categories of Standard Precautions.
5. List the three elements necessary for disease transmission.
6. Explain the three categories of Transmission-Based Precautions.

### Intended learning outcomes (ILOs) of the course:

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Knowledge and understanding of the principles of evidence-based medicine.	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type

A2. Knowledge and understanding of the normal structure, function and development of the human body and mind at all stages of life and body-mind interactions. Knowledge and understanding of the genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic noxious effects on the body and mind	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type
A3. Knowledge and understanding of the etiology, pathogenesis, pathology, symptoms and signs, natural history, and prognosis of mental and physical disorders in all age groups listed in the appendix and designed as “common”.	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type
A4. Knowledge and understanding of common diagnostic procedures, indications, contraindications and limitations listed in the App. 2. Knowledge of the appropriate use of laboratory techniques and hygiene and sanitization, asepsis, infection control, transmission.	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type
A5. Knowledge and understanding of the action, metabolism, and toxic effects of drugs and their therapeutic applications, indications, contraindications and side effects	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type
A6. Identify of the principles of health maintenance, education, prevention and screening. Knowledge and understanding of the epidemiology of common diseases and conditions and the systematic approaches in reducing the incidence and prevalence of those diseases.	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type
A7. Knowledge and understanding of the normal structure and function of the body and of each of its major organ systems	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type
A8. Knowledge and understanding of molecular, biochemical, and cellular mechanisms of maintaining homeostasis	Lecture -discussion Role play Brainstorming	Essay type Short answer Objective type

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Compare between descriptive and experimental epidemiological studies and measures of risk.	Lecture discussion Demonstration Case discussions / Seminar.	Essay type Short answer Objective type
B2. Analyze determinant of health and principles of preventive and control of common health problems.	Lecture discussion Demonstration Case discussions / Seminar.	Essay type Short answer Objective type
B3. Discuss methods of control of communicable diseases	Lecture discussion Demonstration	Essay type Short answer

	Case discussions / Seminar.	Objective type
B4. Compare between morbidity and mortality	Lecture discussion Demonstration Case discussions / Seminar.	Essay type Short answer Objective type
B5. Design a screening program.	Lecture discussion Demonstration Case discussions / Seminar.	Essay type Short answer Objective type

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
C1. Provides preventive and therapeutic approaches taken towards the major endemic diseases.	Lecture discussion Demonstration Brainstorming	Essay type Short answer Objective type
C2. Implement epidemiological studies based on observation	Lecture discussion Demonstration Brainstorming	Essay type Short answer Objective type
C3. Provide safe, effective care to patient in different age & groups.	Lecture discussion Demonstration Brainstorming	Essay type Short answer Objective type
C4. Apply infection control measures.	Lecture discussion Demonstration Brainstorming	Essay type Short answer Objective type
C5. Design a screening program.	Lecture discussion Demonstration Brainstorming	Essay type Short answer Objective type

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
D1. Communicates effectively with individuals, families, and communities.	Lecture discussion Demonstration Role play	Short answer Objective Type
D2. Employ effective communication and accurate documentation while providing methods of control of communicable diseases	Lecture discussion Demonstration Role play	Short answer Objective Type
D3. Use an internet and computer while studying observational and experimental studies	Lecture discussion Demonstration Role play	Short answer Objective Type



## V: Course Content:

### 1 – Course Topics/Items:

#### a – Theoretical Aspect:

Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Introduction To epidemiology	<ul style="list-style-type: none"> <li>▪ The historical context.</li> <li>▪ Definition of epidemiology</li> <li>▪ Objectives of epidemiology.</li> <li>▪ Uses of epidemiology</li> </ul>	1	2	A1
2	Concepts of Disease Occurrence	<ul style="list-style-type: none"> <li>▪ Epidemiologic Triangle (Triad)                             <ul style="list-style-type: none"> <li>▪ Epidemiologic Concepts</li> </ul> </li> </ul>	1	2	A2, A3
3	Chain of Infection	<ul style="list-style-type: none"> <li>▪ Reservoir</li> <li>▪ Portal of exit</li> <li>▪ Modes of transmission</li> <li>▪ Portal of entry</li> <li>▪ Host</li> </ul>	1	2	A4
4	Levels of prevention	<ul style="list-style-type: none"> <li>▪ Definition of prevention</li> <li>▪ Levels of prevention:                             <ul style="list-style-type: none"> <li>- Primary prevention</li> <li>- Secondary prevention</li> <li>- Tertiary prevention</li> </ul> </li> </ul>	1	2	A5, B2
5	Methods of control of communicable diseases	<ul style="list-style-type: none"> <li>▪ Main methods of control                             <ul style="list-style-type: none"> <li>✓ Elimination of Reservoir of Infection</li> <li>✓ Interruption of Transmission</li> <li>✓ Susceptible Host Protection</li> </ul> </li> <li>▪ General methods for control of communicable diseases                             <ul style="list-style-type: none"> <li>✓ Preventive Measures report</li> <li>✓ Control of Patient, Contact and Environment</li> <li>✓ Epidemic Measures</li> <li>✓ International Measures</li> </ul> </li> <li>▪ Medical assistant function in communicable diseases control</li> </ul>	1	2	A6, B3, C1, D2
6	Measures of risk	<ul style="list-style-type: none"> <li>▪ Frequency Measures</li> <li>▪ Morbidity Frequency Measure</li> <li>▪ Mortality Frequency Measures</li> <li>▪ Birth Measures</li> <li>▪ Measures of Association</li> </ul>	1	2	B1, B4
7	Midterm exam	Midterm exam	1	2	A1, A2, A3, A4, A5, A6, B1, B2, B3, B4, C1, D2

8	Epidemiology methods of surveillance	Methods of surveillance in epidemiology	1	2	A7, D1
9	Screening	Screening	1	2	A8, B5, D1
10	Types of epidemiological studies	<ul style="list-style-type: none"> <li>▪ Observation epidemiology</li> <li>▪ Experimental epidemiology</li> </ul>	5	10	A9, B1, C2, D3
11	Final exam	Final exam	1	2	A1, A2, A3, A4, A5, A6, A7, A8, A9, B1, B2, B3, B4, C1, C2, D1, D3
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

<b>B – Practical Aspect:</b>				
Order	Task/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Tb Center visit	3	12	c1, c2, c3, c4
2	Health centers visits	3	12	c1, c2, c3, c4
3	Hospital visit CSD, Isolation department	3	12	c1, c2, c3, c4
4	Census and statistical office	2	8	c1, c2, c3, c4
<b>Number of Weeks /and Units Per Semester</b>		<b>11</b>	<b>44</b>	

<b>V. Teaching strategies of the course</b>
1. Lecture - Discussion 2. Demonstration 3. Brainstorming 4. Case discussions / Seminar

<b>VI. Assignments</b>				
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Exercise 1: analytical cross-sectional study		2-4	2.5

		A9, B1, C2, D3		
2	Exercise 2: cohort study	A9, B1, C2, D3	8-10	2.5

VII. Schedule of Assessment Tasks for Students During the Semester					
No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
1	Attendance and activities	15 <sup>th</sup> week	5	5%	A1, A2, A3, A4, A5, B1, B2, B3, B4, C1, C2, C3, C4, D1
2	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	5	5%	A2, A3, A4, B1, B2, C1, C2, C3, C4, D1
3	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	20	20%	A1, A2, A3, A4, A5, B1, B2, B3, B4, C1, C2, C3, C4, D1
4	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	70	70%	A6, A7, A8, B4, B5, C6, D1

Clinical Part					
No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
1	Attendance and activities	15 <sup>th</sup> week	5	10%	C1, C2, C3, C4, C5, C6, C7, C8, C9, D1
2	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	5	10%	C4, C6, C8, D1
3	Clinical Evaluation/ Semester Work	15 <sup>th</sup> week	25	50%	C1, C2, C3, C4, C5, D1
4	Final Exam (Written, Oral and Clinical Exam)	16 <sup>th</sup> -17 <sup>th</sup> week	15	30%	C6, C7, C8, C9, D1
Number of Weeks /and Units Per Semester			50	100%	

## VII: Learning Resources:

### 1. Required Textbook(s) ( maximum two ).

1. St John's Ambulance (2007). First AID. St John's Ambulance Association.
2. Stead, L. G., Stead S. M and Kaufman M. S., (2006). Firstaid for the Emergency Medicine Clerkship. 2<sup>nd</sup> Ed. McGraw-Hill, New York

## 2. Essential References.

1. Mahadevan S.V. and Garmel G. (2005). An Introduction to Clinical Emergency Medicine. Cambridge University Press. Cambridge, New York

## 3. Electronic Materials and Web Sites *etc.*

1. [www.GOOGLE.com](http://www.GOOGLE.com)

## IX. Course Policies:

<b>1</b>	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
<b>2</b>	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
<b>3</b>	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
<b>4</b>	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
<b>5</b>	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
<b>6</b>	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## I. Course Identification and General Information:

1	Course Title:	Operations Theater-1			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		4	2	-	2
4	Study Level/ Semester at which this Course is offered:	Second Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to principle concepts of OT admin, OT design and layout and communication with patients and staffs .*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>H. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a2.1	Understand the principles of OT management.	A2	Discuss principles and concepts of health management, human interactions, and research
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1.1	Organize and communicate the activities with other staff in other department.	B1	Organizing activities between operations department and other departments
b2.1	Arrange the procedures of patients.	B2	Bring the patient to the operating room.
b5.1	Implement Safety measures.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Preoperative Assessment of patient.	C1	Preparing the operating room and receiving patients undergoing surgery
c8.1	Preoperative Assessment of patient.	C8	Prepare the patient before and after the surgery by washing and disinfecting the surgical area.
c9.1	Preoperative Assessment of patient.	C9	Prepare the patient's needs in the operating room.
c11.1	Monitoring & Recording The Physiological Status	C11	Send any samples taken for examination and follow-up laboratory procedures.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d3.1	Orientation of New Personnel and In Service	D3	Work effectively with the team in different situations
d5.1	Manage Visitors To Operating Theatre	D5	Effectively manage time.
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>a2.1</b>	Understand the principles of OT management.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a6.1</b>	Understand the principles of sterilization, disinfections and aseptic technique.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b1.1</b>	Organize and communicate the activities with other staff in other department.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b2.1</b>	Arrange the procedures of patients.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b5.1</b>	Implement Safety measures.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>c1.1</b>	Preoperative Assessment of patient.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c8.1</b>	Preoperative Assessment of patient.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c9.1</b>	Preoperative Assessment of patient.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record.

			Practical exam
<b>c11.1</b>	Monitoring & Recording The Physiological Status	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d3.1	Orientation of New Personnel and In Service	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d5.1	Manage Visitors To Operating Theatre	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d6.1	Keep daily register records of operating theatre department.	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record

**IV. Course Contents:**

**A. Theoretical Aspect:**

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Administration of Surgical Equipment</b>	Packing and Storage Methods of Suture Material Economical Use of Supplies and Equipment Swabs, Needles and Instrument Counts Counting Procedure Incorrect Count	<b>3</b>	<b>6</b>	a2.1, b1.1
2	<b>OT Design and Layout</b>	Layout and Design Administration In The Operation Theatre Visitors To Operating Theatre Risks In OT Central Sterile Services Department	<b>3</b>	<b>6</b>	a2.1, a6.1, b1.1, b2.1, d5.1
3	<b>Mid Term Exam</b>	<b>Mid Term Exam</b>	<b>1</b>	<b>2</b>	



4	<b>The Patient</b>	Consent To An Operation Preoperative Assessment Reception of The Patient In The OT Monitoring & Recording The Physiological Status	3	6	a2.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
5	<b>Staff Conduct an Practice</b>	Orientation of New Personnel and In Service OT Attire General Considerations Components of Attire Principles of Aseptic Techniques The Need For Sterile Technique Surgical Scrub Gowning Technique Gloving Technique Removing Gown and Gloves	3	6	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1, d3.1, d5.1, d6.1
6	<b>Final exam</b>	<b>Final exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>14</b>	<b>28</b>	

#### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Swabs, Needles and Instrument Counts	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
2	Management the storage, movement in OT	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
3	Identify the risks in OT	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
4	Deal with Central Sterile Services Department	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
5	Procedure of bringing the patient to OT	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
6	Procedure of Patient Preoperative Assessment	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
7	Monitor and record The Physiological Status	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1

8	Procedure of wearing Attire	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
9	Procedure of wearing Gowning	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
10	Procedure of wearing gloves	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
11	Procedure of removing Gowning	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
12	Procedure of removing gloves	1	4	a2.1, a6.1, b1.1, b2.1, b5.1, c1.1, c8.1, c9.1, c11.1
13	<b>Final exam</b>	1	4	All
<b>Number of Weeks /and Units Per Semester</b>		13	52	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Write about OT design	12	5	All
<b>Total</b>				

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
Total			150	100%	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ) : مثال example

1. A Complete Hospital Manual of Instruments and Procedures by Kapur- Jaypee Brothers DIPLOMA IN OPERATION THEATRE TECHNOLOGY .
2. [http://www.zimmer.co.nz/web/enUS/pdf/Surgical\\_Cleaning\\_Instructions\\_Final.pdf](http://www.zimmer.co.nz/web/enUS/pdf/Surgical_Cleaning_Instructions_Final.pdf)

### 2- Essential References:

1. A Complete Hospital Manual of Instruments and Procedures by Kapur- Jaypee Brothers DIPLOMA IN OPERATION THEATRE TECHNOLOGY .  
[http://www.zimmer.co.nz/web/enUS/pdf/Surgical\\_Cleaning\\_Instructions\\_Final.pdf](http://www.zimmer.co.nz/web/enUS/pdf/Surgical_Cleaning_Instructions_Final.pdf)

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي

- 1 Class Attendance:

	Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

**SYLLABUS**  
**YEAR (2)**  
**SEMESTER (1)**

## I. Course Identification and General Information:

1	Course Title:	Operations Technique-1			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	-	2
4	Study Level/ Semester at which this Course is offered:	Second Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain theoretical and practical knowledge about mechanism of machines used for different surgical, theory and practical knowledge about general surgery and its equipment, theory and practical knowledge about gynecology surgery and its equipment, and practical knowledge about pediatric surgery and its equipment, and practical knowledge about plastic surgery and its equipment.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>I. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a3.1	Know the optimal drugs for patients of general, plastic, pediatric and gynecology surgeries.	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a4.1	Use the procedures followed before, during and after general, plastic, pediatric and gynecology surgeries.	A4	Know the procedures followed before, during and after each operation.
a5.1	Use and maintain the equipment and surgical techniques of various surgery .	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b3.1	Prepare the operating room according to the general, plastic, pediatric and gynecology operation.	B3	Implementation of special nursing procedures for different surgeries
b4.1	Arrange the instruments in sets of general, plastic, pediatric and gynecology operation.	B4	Providing work needs in operating rooms.
b5.1	Implement Safety measures.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Assist in positioning patients on the operation table.	C1	Preparing the operating room and receiving patients undergoing surgery
c2.1	Inspect and prepare the suitable surgical needles	C2	Inspect and organize the equipment fitted on the operating table and give the surgeon
c3.1	Implement medicolegal aspects.	C3	Prepare tools for different stages of the process
c4.1	Handling of ligature materials for any operation	C4	Provide materials and equipment for operation
c5.1	Clean general, plastic, pediatric and gynecology surgery sets	C5	Cleaning and disinfection of surgical instruments and instruments after surgery
c6.1	Prepare and handling the general, plastic, pediatric and gynecology surgery sets	C6	Prepare surgical devices and instruments for sterilization in each protocol.
c7.1	Sterile general, plastic, pediatric and gynecology surgery sets	C7	Keep all surgical instruments sterile, tidy and ready for use

<b>c8.1</b>	Prepare the patients of general, plastic, pediatric and gynecology surgery sets	<b>C8</b>	Prepare the patient before and after the surgery by washing and disinfecting the surgical area.
<b>c10.1</b>	Assist the surgeon during minor and major operation.	<b>C10</b>	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
<b>d2.1</b>	Good communication with patients	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Deal effectively with the surgical	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time according to handling the sets	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department.	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>a3.1</b>	Know the optimal drugs for patients of general, plastic, pediatric and gynecology surgeries.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a4.1</b>	Use the procedures followed before, during and after general, plastic, pediatric and gynecology surgeries.		
<b>a5.1</b>	Use and maintain the equipment and surgical techniques of various surgery .		
<b>a6.1</b>	Understand the principles of sterilization, disinfections and aseptic technique.		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b3.1</b>	Prepare the operating room according to the general, plastic, pediatric and gynecology operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b4.1</b>	Arrange the instruments in sets of general, plastic, pediatric and gynecology operation.		



b5.1	Implement Safety measures.		
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**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1.1	Assist in positioning patients on the operation table.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
c2.1	Inspect and prepare the suitable surgical needles		
c3.1	Implement medicolegal aspects.		
c4.1	Handling of ligature materials for any operation		
c5.1	Clean general, plastic, pediatric and gynecology surgery sets		
c6.1	Prepare and handling the general, plastic, pediatric and gynecology surgery sets		
c7.1	Sterile general, plastic, pediatric and gynecology surgery sets		
c8.1	Prepare the patients of general, plastic, pediatric and gynecology surgery sets		
c10.1	Assist the surgeon during minor and major operation.		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

**IV. Course Contents:**

**A. Theoretical Aspect:**

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Sterilization Techniques</b>	<ul style="list-style-type: none"> <li>- Hand scraping</li> <li>- Gloves and Gown wear</li> </ul>	1	2	a6.1, a5.1
2	<b>Mechanism of Machine Work</b>	<ul style="list-style-type: none"> <li>- Diathermy Machine</li> <li>- Operation table</li> <li>- Drill, Microscope</li> </ul>	1	2	a5.1, b3.1, b4.1
3	<b>The common operation of General surgery</b>	<ul style="list-style-type: none"> <li>- <b>Appendectomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Cholecystectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Hemorrhoidectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Hernia, Herniotomy, Herniorrhaphy</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Laparotomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Thyroidectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Mastectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Parasail Gastrectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Splenectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	4	8	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
4	<b>The common operation of pediatric</b>	<ul style="list-style-type: none"> <li>- <b>Appendectomy</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Congenital defects</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Gallbladder surgery</b></li> </ul>	3	6	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

		<p>(Definition, Types, Equipment, surgical Techniques)</p> <ul style="list-style-type: none"> <li>- <b>Reproductive defects</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Removal of diseased intestines</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Imperforate anus</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>			
5	Mid Term Exam	<b>Mid Term Exam</b>	1	2	All
6	The common operation of Gynecology	<ul style="list-style-type: none"> <li>- <b>Caesarian</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Hysterectomy, Abdominal, Vaginal</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Ovarian cyst resection operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>D &amp; C delated &amp; Curate</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Laparoscope Diagnostic</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Tupian Ligation Fallopien</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Cyst rectoceles repair</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	3	6	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
7	The common operation of plastic surgery	<ul style="list-style-type: none"> <li>- <b>Skin grafting operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Rundu skin flaps operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Clift lips operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

		<ul style="list-style-type: none"> <li>- <b>Clift palate operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Abdomen plastid operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>flaps operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>tendon repair operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>			
8	Final exam	Final exam	1	2	All
Number of Weeks /and Units Per Semester			16	32	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Deal with :</b> <ul style="list-style-type: none"> <li>- Diathermy Machine</li> <li>- Operation table</li> <li>- Drill, Microscope</li> </ul>	1	2	a5.1, b3.1, b4.1
2	<b>Use Equipment, and surgical Techniques of:</b> <ul style="list-style-type: none"> <li>- Cholecystectomy operation</li> <li>- Hemorrhoidectomy operation</li> <li>- Hernia, Herniotomy, Herniorrhaphy</li> <li>- Laparotomy operation</li> <li>- Thyroidectomy operation</li> <li>- Mastectomy operation</li> <li>- Parasail Gastrectomy operation</li> <li>- Splenectomy operation</li> </ul>	5	10	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
3	<b>Use Equipment, and surgical Techniques of:</b> <ul style="list-style-type: none"> <li>- Appendectomy</li> <li>- Congenital defects</li> <li>- Gallbladder surgery</li> <li>- Reproductive defects</li> <li>- Removal of diseased intestines</li> <li>- Imperforate anus</li> </ul>	3	6	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
4	<b>Use Equipment, and surgical Techniques of:</b> <ul style="list-style-type: none"> <li>- Caesarian</li> </ul>	4	8	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1,

	<ul style="list-style-type: none"> <li>- Hysterectomy, Abdominal, Vaginal</li> <li>- Ovarian cyst resection operation</li> <li>- D &amp; C delated &amp; Curate</li> <li>- Laparoscope Diagnostic</li> <li>- Tupian Ligation Fallopian</li> <li>- Cyst rectoceles repair</li> </ul>			b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
5	<b>Use Equipment, and surgical Techniques of:</b> <ul style="list-style-type: none"> <li>- Skin grafting</li> <li>- Rundu skin flaps</li> <li>- Clift lips</li> <li>- Clift palate</li> <li>- Abdomen plastid flaps</li> </ul> tendon repair	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks /and Units Per Semester</b>		15	30	

C. Tutorial Aspect:				
No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Not Applicable				

V. Teaching Strategies of the Course:
<ul style="list-style-type: none"> <li>Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.</li> </ul>

VI. Assessment Methods of the Course:
<ul style="list-style-type: none"> <li>Written Exams, Exercises &amp; Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation</li> </ul>

VII. Assignments:				
No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
Not Applicable				
<b>Total</b>				

<b>VIII. Schedule of Assessment Tasks for Students During the Semester:</b>
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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

### 1- Required Textbook(s) ( maximum two ): مثال example

- Handbook of Surgical Technique: A True Surgeon's Guide to Navigating the Operating Room 1st Edition, by Christopher J. Hartman (Author), Louis R. Kavoussi MD MBA (Author)

### 2- Essential References:

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b>

	No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Pathophysiology			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Field	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:	3\2			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

The course is designed to provide emergency medicine students' with knowledge related to mechanism of diseases concerning various body system. It will cover cellular physiology, alterations in cells, tissues injury, hypoperfusion, shock, self-defense mechanisms, variances in immunity, inflammation, stress, genetics and familial diseases.

**III. Course Intended Learning Outcomes (CILOs) :**  
(مخرجات تعلم المقرر)

**Referenced PILOs**  
(مخرجات تعلم البرنامج)

**J. Knowledge and Understanding:** Upon successful completion of the course, students will be able to:



a1	Identify the normal characteristics of the cellular environment and the key homeostatic mechanisms that strive to maintain an optimal fluid and electrolyte balance.	A1	
a2	Outline pathophysiologic alterations in water, electrolyte balance and their effects on body functions.	A3	

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Analyze critically normal acid–base balance and alterations in acid–base balance.	B2	
b2	Explain how changes in immune status and the presence of inflammation can adversely affect body functions.	B3	

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Provide the treatment of patients with particular fluid or electrolyte imbalances.	C1	
c2	Describe the management of a patient with an acid–base imbalance	C2	

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Appreciate the utilization of research to identify causes genetic and familial disease factors	D1	
d2	Educate the patient about the impact of stress on the body’s response to illness or injury.	D3	

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<u>Course Intended Learning Outcomes</u>		<u>Teaching Strategies</u>	<u>Assessment Strategies</u>
a1	Identify the normal characteristics of the cellular environment and the key homeostatic mechanisms that strive to maintain an optimal fluid and electrolyte balance.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Outline pathophysiologic alterations in water, electrolyte balance and their effects on body functions.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Analyze critically normal acid–base balance and alterations in acid–base balance.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Explain how changes in immune status and the presence of inflammation can adversely affect body functions.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Provide the treatment of patients with particular fluid or electrolyte imbalances.	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Describe the management of a patient with an acid–base imbalance	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Appreciate the utilization of research to identify causes genetic and familial disease factors	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Educate the patient about the impact of stress on the body’s response to illness or injury.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

**IV. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<p><b>Cellular Physiology: Basic Cellular Review</b></p>	<ul style="list-style-type: none"> <li>▪ Intracellular and Extracellular Fluid</li> <li>▪ Aging and the Distribution of Body Fluids</li> <li>▪ Water Movement Between Intracellular Fluid and Extracellular Fluid                             <ul style="list-style-type: none"> <li>○ Osmosis</li> <li>○ Diffusion</li> <li>○ Fluid Replacement Therapy</li> <li>○ Mediated Transport Mechanisms</li> </ul> </li> <li>▪ Water Movement Between Plasma and Interstitial Fluid                             <ul style="list-style-type: none"> <li>○ Anatomy of the Capillary Network</li> <li>○ Capillary and Membrane Permeability</li> </ul> </li> <li>▪ Alterations in Water Movement                             <ul style="list-style-type: none"> <li>○ Pathophysiology of Edema</li> <li>○ Clinical Manifestations of Edema</li> </ul> </li> <li>▪ <b>Water Balance, Sodium, and Chloride</b> <ul style="list-style-type: none"> <li>○ Water Balance</li> <li>○ Sodium and Chloride Balance</li> <li>○ Alterations in Sodium, Chloride, and Water Balance</li> <li>○ Dehydration</li> <li>○ Electrolyte Imbalances</li> <li>○ Overhydration</li> </ul> </li> <li>▪ <b>Acid–Base Balance</b> <ul style="list-style-type: none"> <li>○ Buffer Systems</li> <li>○ Acid–Base Imbalance</li> <li>○ Acidosis</li> <li>○ Alkalosis</li> <li>○ Mixed Acid–Base Disturbances</li> </ul> </li> </ul>	3	9	a1, b1, c1

2	<b>Alterations in Cells and Tissues Injury and Disease</b>	<ul style="list-style-type: none"> <li>▪ <b>Cellular Adaptation</b></li> <li>▪ <b>Cellular Injury</b> <ul style="list-style-type: none"> <li>○ Hypoxic Injury</li> <li>○ Free Radical Injury</li> <li>○ Chemical Injury</li> <li>○ Infectious Injury</li> <li>○ Immunologic &amp; Inflammatory Injury</li> <li>○ Injurious Genetic Factors</li> <li>○ Injurious Nutritional Imbalances</li> <li>○ Injurious Physical Agents</li> </ul> </li> <li>▪ <b>Manifestations of Cellular Injury</b> <ul style="list-style-type: none"> <li>○ Cellular Manifestations</li> </ul> </li> <li>▪ <b>Cellular Death and Necrosis</b></li> </ul>	2	6	a1, b1
3	<b>Hypoperfusion and Shock</b>	<ul style="list-style-type: none"> <li>▪ <b>Pathogenesis</b> <ul style="list-style-type: none"> <li>○ Decreased Cardiac Output</li> <li>○ Compensatory Mechanisms</li> </ul> </li> <li>▪ <b>Types of Shock</b></li> <li>▪ <b>Multiple Organ Dysfunction Syndrome</b> <ul style="list-style-type: none"> <li>○ Pathophysiology</li> </ul> </li> <li>▪ <b>Impairment of Cellular Metabolism</b></li> </ul>	2	6	a1,b1
4		<b>Midterm exam</b>	1	3	a1,b1
5	<b>Self-Defense Mechanisms</b>	<ul style="list-style-type: none"> <li>▪ <b>Inflammatory Response</b> <ul style="list-style-type: none"> <li>○ Stages of the Inflammatory Response</li> <li>○ Mast Cells</li> <li>○ Local and Systemic Response to Acute Inflammation</li> <li>○ Responses to Chronic Inflammation</li> </ul> </li> <li>▪ <b>Immune Response</b> <ul style="list-style-type: none"> <li>○ Induction of the Immune Response</li> <li>○ Blood Group Antigens</li> <li>○ Rh Factor</li> </ul> </li> </ul>	2	6	a2,

6	<b>Variances in Immunity and Inflammation</b>	<ul style="list-style-type: none"> <li>▪ <b>Hypersensitivity: Allergy, Autoimmunity, and Isoimmunity</b> <ul style="list-style-type: none"> <li>○ Mechanisms of Hypersensitivity</li> </ul> </li> <li>▪ <b>Immunity and Inflammation Deficiencies</b> <ul style="list-style-type: none"> <li>○ Primary Immune Deficiencies</li> <li>○ Secondary Immune Deficiencies</li> </ul> </li> </ul>	2	6	a2, b2
7	<b>Stress and Disease</b>	<ul style="list-style-type: none"> <li>▪ <b>Neuroendocrine Regulation of Stress</b> <ul style="list-style-type: none"> <li>○ Catecholamines</li> <li>○ Cortisol <ul style="list-style-type: none"> <li>✓ Physiologic Effects of Cortisol</li> </ul> </li> </ul> </li> <li>▪ <b>Role of the Immune System</b></li> <li>▪ <b>Interrelationship of Stress, Coping, and Illness</b></li> </ul>	1	3	a2, b2
8	<b>Genetics and Familial Diseases</b>	<ul style="list-style-type: none"> <li>▪ <b>Factors Causing Disease</b> <ul style="list-style-type: none"> <li>○ Genetic Factors</li> <li>○ Social &amp; Environmental Factors</li> <li>○ Age and Sex</li> </ul> </li> <li>▪ <b>Analyzing the Risk of Disease</b> <ul style="list-style-type: none"> <li>○ Disease Rates</li> <li>○ Risk Factor Analysis</li> </ul> </li> <li>▪ <b>Combined Effects and Interaction of Risk Factors</b> <ul style="list-style-type: none"> <li>○ Familial Disease Tendency</li> <li>○ Aging and Age-Related Disorders</li> </ul> </li> <li>▪ <b>Common Familial Diseases and Associated Risk Factors</b> <ul style="list-style-type: none"> <li>○ Common Familial Diseases and Associated Social and Environmental Risk Factors</li> </ul> </li> </ul>	2	6	a1
		<b>Final exam</b>	<b>1</b>	<b>2</b>	
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

## V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

## VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	<b>Assignment 1:</b> Alterations in Cells and Tissues Injury and Disease (Cellular Injury)	W5	5	a1, b1
2	<b>Assignment 2:</b> Self-Defense Mechanisms (Local and Systemic Response to Acute Inflammation)	W11	5	a2, b2
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

1. Banasik, J., & Copstead, L., (2019). Pathophysiology. 6<sup>th</sup> Ed., Saunders, Missouri
2. Sanders, M., & McKenna k., Tan, D., Pollak A., and Mejia A., (2019). Sanders' Paramedic Textbook 5<sup>th</sup> Ed., USA.

### 2- Essential References:

1. Kumar V., Abbas A., & Aster J., (2018). Robbins Basic Pathology. Elsevier, 10<sup>th</sup> Ed., Pennsylvania
2. Calvango s., (2013). Emergency Pathophysiology Clinical Applications for Prehospital Care, Teton New Media

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

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## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
6	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>

## I. Course Identification and General Information:

1	Course Title:	Operations Theater-2			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		4	2	-	2
4	Study Level/ Semester at which this Course is offered:	First Level/ Second semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

This course is designed to help the student to acquire knowledge & skills of principles of theatre technique .



III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>K. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a5.1	Use and maintain the electric apparatus and lighting in operating theatre.	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b3.1	Prepare the operating room according to the specific operation.	B3	Implementation of special nursing procedures for different surgeries
b4.1	Arrange the instruments in sets according to the specific operation.	B4	Providing work needs in operating rooms.
b5.1	Implement Safety measures.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Assist in positioning patients on the operation table.	C1	Preparing the operating room and receiving patients undergoing surgery
c3.1	Implement medicolegal aspects.	C3	Prepare tools for different stages of the process
c10.1	Assist the surgeon during minor and major operation.	C10	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
a5.1	Use and maintain the electric apparatus and lighting in operating theatre.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	Lecture discussion Demonstration	Short answer questions Objective type

		Brain storming	
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b3.1</b>	Prepare the operating room according to the specific operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b4.1</b>	Arrange the instruments in sets according to the specific operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b5.1</b>	Implement Safety measures.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>c1.1</b>	Assist in positioning patients on the operation table.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c3.1</b>	Implement medicolegal aspects.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c10.1</b>	Assist the surgeon during minor and major operation.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>d6.1</b>	Keep daily register records of operating theatre department.	Practice session Supervised	Assessment of each skill with checklist

		Lab Practice	Completion of activity record
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## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b><u>Introduction</u></b>	Definition of the operating Theatre - Operation suite Design - Lighting - Air condition - Heat and Humidity -Equipment and furniture - Source of infection	2	4	a5.1, a6.1
2	<b><u>Operation Theatre and sterilization supply</u></b>	- Preparation of personnel. - Preparation of operation Theatre. - Preparation of instruments trolley. - Preparation of instrument in minor operation. - The scrub nurse - The Theatre runner. -Swab checking and operation register. - Preparation of packs. - Operation linen	6	12	b3.1, b4.1, b5.1
3	<b>Midterm Exam</b>	<b>Midterm exam</b>	1	2	a5.1, a6.1, b3.1, b4.1, b5.1
4	<b><u>Operation Theatre and sterilization supply</u></b>	- Hand wash, the surgical scrub, gowing, gloving and face mask. - Preparation of the patient's skin during operation.	3	6	b5.1,
5	<b><u>Operation Theatre and sterilization supply</u></b>	Glossary of technical terms and words commonly sed in the theatre	1	2	c3.1, d6.1

6	<b><u>Operation Theatre and sterilization supply</u></b>	Surgical Position	1	2	b3.1, c1.1, c10.1
7	<b><u>Sterilization</u></b>	- Bacteria and their destruction - Methods of sterilization a- Heat sterilization “Autoclave” b- Dry heat “Oven” c- Boiling d- Chemical Substances	1	2	a6.1, b5.1
8	<b>Final exam</b>	<b>Final exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

#### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Operation suite Design, components, the work and movement in suite.	1	4	b3.1, b4.1, b5.1
2	- Preparation of personnel.	1	4	b3.1, b4.1, b5.1
3	- Preparation of operation Theatre.	1	4	b3.1, b4.1, b5.1
4	- Preparation of instruments trolley.	1	4	b3.1, b4.1, b5.1
5	- Preparation of instrument in minor operation.	1	4	b3.1, b4.1, b5.1
6	- The scrub nurse - The Theatre runner.	1	4	b3.1, b4.1, b5.1
7	-Swab checking and operation register.	1	4	b3.1, b4.1, b5.1
8	- Preparation of packs.	1	4	b3.1, b4.1, b5.1
9	- preparation of Hand wash, the surgical scrub, gowning, gloving and face mask.	1	4	b3.1, b4.1, b5.1
10	- Preparation of the patient’s skin during operation.	1	4	b3.1, b4.1, b5.1
11	Preparation of different positions of surgical-1	1	4	b3.1, b4.1, b5.1, c1.1, c10.1

12	Preparation of different positions of surgical-2	1	4	b3.1, b4.1, b5.1, c1.1, c10.1
13	- implement Sterilization by Heat sterilization using “Autoclave” - implement Sterilization by Dry heat using “Oven”	1	4	b3.1, b4.1, b5.1
14	- implement Sterilization by Boiling - implement Sterilization by Chemical Substances	1	4	b3.1, b4.1, b5.1
15	<b>Final exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>		15	58	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1		4		
2		10		
<b>Total</b>				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	

2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

- 1- Brigden (1972) operatiob theatre technique, second edition Livingstone.
- 2- Alkison,Lucy (1988) Berry and Kolin's introduction to operating room technique, Fifth Edition, NewYork, MCGron Hill book Camp.

### 2- Essential References:

- 1- Brigden (1972) operatiob theatre technique, second edition Livingstone.
- 2- Alkison,Lucy (1988) Berry and Kolin's introduction to operating room technique, Fifth Edition, NewYork, MCGron Hill book Camp.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

### Class Attendance:

- 1 Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.

### Tardiness:

- 2 A student will be considered late if he/she is not in class after 10 minutes of the start time of class.

### Exam Attendance/Punctuality:

- 3 No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.

4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Pharmacology 1			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Field	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:	3\2			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

Pharmacology is designed to prepare the students integrates comprehensive knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient. This course will give an overview of pharmacology, including historical trends in pharmacology, general properties of drugs, mechanisms of drug action, drug profiles and special considerations in drug therapy, drugs that affect cardiovascular, nervous, blood and respiratory system.

## III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)

**A. Knowledge and Understanding:** Upon successful completion of the course, students will be able to:

a1	Recognize the four types of drug names, and the factors that influence drug absorption, distribution, and elimination.	A1	
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a2	Identify drugs that affect the blood, cardiovascular, respiratory system, and mention special considerations for administering pharmacologic agents to pregnant patients, pediatric patients, and older patients.	A3	
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**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Differentiate between characteristics of routes of drug administration	B2	
b2	Distinguish among drug forms, respiratory depressants and cough suppressants	B3	

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Explain variables that can influence drug interactions	C1	
c2	Mention drug actions and care considerations when administering drugs for the nervous, cardiovascular, respiratory, endocrine, and gastrointestinal systems.	C2	

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	D1	
d2	Discuss the legal and ethical issues that arise in the emergency care setting.	D3	

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Recognize the four types of drug names, and the factors that influence drug absorption, distribution, and elimination.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Identify drugs that affect the blood, cardiovascular, respiratory system, and mention special considerations for administering pharmacologic agents to pregnant patients, pediatric patients, and older patients.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Differentiate between characteristics of routes of drug administration	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Distinguish among drug forms, respiratory depressants and cough suppressants	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Explain variables that can influence drug interactions	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Mention drug actions and care considerations when administering drugs for the nervous, cardiovascular, respiratory, endocrine, and gastrointestinal systems.	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Discuss the legal and ethical issues that arise in the emergency care setting.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

	▪ Case study analysis	
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<b>IV. Course Contents:</b>					
<b>A. Theoretical Aspect:</b>					
<b>No.</b>	<b>Units/Topics List</b>	<b>Sub Topics List</b>	<b>Number of Weeks</b>	<b>Contact Hours</b>	<b>Learning Outcomes (CLOs)</b>
1	<b>Historical Trends in Pharmacology</b>	<ul style="list-style-type: none"> <li>▪ History of drug               <ul style="list-style-type: none"> <li>○ Ancient and modern health care</li> </ul> </li> <li>▪ <b>Drug Names</b> <ul style="list-style-type: none"> <li>○ Chemical name</li> <li>○ Generic name</li> <li>○ Trade name</li> <li>○ Official name</li> </ul> </li> <li>▪ Sources of Drug information</li> <li>▪ Drug Standards and Legislation</li> <li>▪ Drug Regulatory Agencies</li> </ul>	1	2	a1,
2	<b>General properties of Drugs</b>	<ul style="list-style-type: none"> <li>▪ Pharmacologic Terminology</li> <li>▪ Pharmaceutical Phase</li> <li>▪ Pharmacokinetic Phase               <ul style="list-style-type: none"> <li>○ Drug Absorption</li> <li>○ Routes of Drug Administration</li> <li>○ Excretion</li> <li>○ Biotransformation</li> <li>○ Excretion</li> <li>○ Factors That Influence the Action of Drugs</li> </ul> </li> <li>▪ Pharmacodynamic Phase               <ul style="list-style-type: none"> <li>○ Drug–Receptor Interaction</li> <li>○ Drug-Response Assessment</li> <li>○ Biologic Half-Life</li> <li>○ Therapeutic Index</li> </ul> </li> </ul>	1	2	a1, b1
3	<b>Mechanisms of drug action and considerations in drug therapy</b>	<b>General Properties of Drugs</b> <ul style="list-style-type: none"> <li>○ Introduction</li> <li>○ Pharmaceutical Phase</li> <li>○ Pharmacokinetic Phase</li> <li>○ Routes of Drug Administration</li> <li>○ Parenteral Route (by injection)</li> <li>○ Pulmonary Route</li> </ul>	1	2	a1, b1, c1, d1

		<ul style="list-style-type: none"> <li>○ Topical Route</li> <li>○ Drug Distribution</li> <li>○ Pharmaco-dynamic Phase</li> <li><b>Drug Interactions</b> <ul style="list-style-type: none"> <li>○ Variables that Influence Drug Interaction</li> <li>○ Drug-Drug Interactions</li> <li>○ Other Factors that can Influence Drug Interactions</li> </ul> </li> <li><b>Drug Storage</b> <ul style="list-style-type: none"> <li>○ Certain Precepts Should Guide the Manner in which Drugs are Secured, Stored, Distributed, and Accounted For</li> <li>○ Factors that Affect Drug Potency</li> <li>○ Applies also to Diluents</li> <li>○ Security of Controlled Medications</li> </ul> </li> </ul>			
4	<b>Drugs That Affect the Nervous System</b>	<ul style="list-style-type: none"> <li>▪ Autonomic Division of Peripheral Nervous System</li> <li>▪ Neurochemical Transmission</li> <li>▪ Transmission of Nerve Impulses in the Autonomic Nervous System</li> <li>▪ Drugs That Affect the Autonomic Nervous System <ul style="list-style-type: none"> <li>○ Classifications</li> </ul> </li> <li>▪ Narcotic Analgesics and Antagonists</li> <li>▪ Non-narcotic Analgesics</li> <li>▪ Anesthetics</li> <li>▪ Antianxiety and Sedative-Hypnotic Agents and Alcohol <ul style="list-style-type: none"> <li>○ Classifications</li> </ul> </li> <li>▪ Alcohol Intake and Behavioral Effects</li> <li>▪ Anticonvulsants</li> <li>▪ CNS Stimulants <ul style="list-style-type: none"> <li>○ Anorexiant</li> <li>○ Amphetamines</li> </ul> </li> <li>▪ Psychotherapeutic Drugs <ul style="list-style-type: none"> <li>○ CNS and Emotions</li> </ul> </li> </ul>	3	6	a1, c1, d1

		<ul style="list-style-type: none"> <li>○ Antipsychotic Agents</li> <li>○ Antidepressants</li> <li>▪ Drugs for Specific CNS–Neuromuscular Dysfunction <ul style="list-style-type: none"> <li>○ Parkinson Disease</li> <li>○ Huntington Disease</li> </ul> </li> <li>▪ Drugs With Central Anticholinergic Activity</li> <li>▪ Drugs That Affect Dopamine in the Brain <ul style="list-style-type: none"> <li>○ Monoamine Oxidase Inhibitors</li> </ul> </li> <li>▪ Skeletal Muscle Relaxants <ul style="list-style-type: none"> <li>○ Central-Acting Muscle Relaxants</li> <li>○ Direct-Acting Muscle Relaxants</li> <li>○ Neuromuscular Blockers</li> </ul> </li> </ul>			
5	<b>Midterm exam</b>	<b>Midterm exam</b>	1	2	a1, b1, c1, d1
6	<b>Drug Profiles</b>	<b>Drug Profiles and Special Considerations in Drug Therapy</b> <ul style="list-style-type: none"> <li>○ The Paramedic should be Familiar with the Drug Profiles of any Drug that He or She Administers</li> <li>○ Components of a Drug Profile</li> <li>○ Special Considerations in Drug Therapy</li> </ul> <ul style="list-style-type: none"> <li>▪ <b>Various Forms of Drug Preparations</b></li> <li>▪ <b>Special Considerations in Drug Therapy</b> <ul style="list-style-type: none"> <li>○ Pregnant Patients</li> <li>○ Pediatric Patients</li> <li>○ Older Adult Patients</li> </ul> </li> </ul>	2	4	a2, b2, c2, d2
7	<b>Drugs That Affect the Cardiovascular System</b>	<ul style="list-style-type: none"> <li>▪ Review of Anatomy and Physiology</li> <li>▪ Cardiac Glycosides</li> <li>▪ Antidysrhythmics <ul style="list-style-type: none"> <li>○ Classifications</li> </ul> </li> <li>▪ Antihypertensives <ul style="list-style-type: none"> <li>○ Classifications</li> </ul> </li> </ul>	2	4	a2, c2, d2

8	<b>Drugs That Affect the Blood</b>	<ul style="list-style-type: none"> <li>▪ Anticoagulants</li> <li>▪ Antihemophilic Agents</li> <li>▪ Hemostatic Agents</li> <li>▪ Hemorrhagic Agents</li> <li>▪ Antifibrinolytic Agents</li> <li>▪ Blood and Blood Components</li> <li>▪ Antihyperlipidemic Drugs</li> </ul>	2	4	a2, c2, d2
9	<b>Drugs That Affect the Respiratory System</b>	<ul style="list-style-type: none"> <li>▪ Review of Anatomy and Physiology</li> <li>▪ <b>Bronchodilators</b> <ul style="list-style-type: none"> <li>○ Sympathomimetic Drugs</li> <li>○ Anticholinergic Bronchodilator</li> <li>○ Xanthine Derivatives</li> <li>○ Other Respiratory Drugs</li> </ul> </li> <li>▪ <b>Mucokinetic Drugs</b></li> <li>▪ <b>Oxygen and Other Respiratory Agents</b> <ul style="list-style-type: none"> <li>○ Direct Respiratory Stimulants</li> <li>○ Reflex Respiratory Stimulants</li> <li>○ Respiratory Depressants</li> <li>○ Cough Suppressants</li> <li>○ Antihistamines</li> <li>○ Serotonin</li> <li>○ Selective Serotonin Reuptake Inhibitors</li> <li>○ Antiserotonins</li> </ul> </li> </ul>	2	4	a2, b2, c2, d2
	<b>Final term exam</b>	<b>Final term exam</b>	1	2	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes

- Mid-term exam
- Final term exam

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: common abbreviations	W5	5	a1, b1
2	Assignment 2: drug classification	W11	5	a2, b2,
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

1. Robert J. Kizior R., and Hodgson K., (2019). Saunders Nursing Drug Handbook. 27<sup>th</sup> Ed. Saunders Nursing Drug Handbook, St. Louis, Missouri
2. Watkins C., (2018). Pharmacology clear & simple: a guide to drug classifications and dosage calculations. 3<sup>rd</sup> Ed. Davis Company,

### 2- Essential References:

1. Burchum J., and Rosenthal L., (2019).Lehne's Pharmacology for Nursing Care. 10<sup>th</sup> Ed., Elsevier Inc. St. Louis, Missouri
2. Bryant B., & Knights K., (2015). Pharmacology For Health Professionals. 4<sup>th</sup> Ed. Elsevier Australia.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- American Journal of Emergency Medicine

- Annals of Emergency Medicine
- Journal of Emergency Medicine
- Journal of Trauma and Acute Care Surgery
- Prehospital Emergency Care

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

<b>1</b>	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
<b>2</b>	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
<b>3</b>	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
<b>4</b>	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
<b>5</b>	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
<b>6</b>	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>



## I. Course Identification and General Information:

1	Course Title:	Surgery 1			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

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### III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

### Referenced PILOs

(مخرجات تعلم البرنامج)

L. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Identify the surgical history and physical examination, Fluid and electrolytes balance and perioperative care		
a2	Recognize the management of simple surgical cases, breast conditions, and bleeding control		

<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1	Integrate the principles of aseptic technique with the actual situations		
b2	Differentiate between internal and external bleeding and absorbable and non absorbable suturing		
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1	Perform surgical physical examination		
c2	Apply infection control measures when used wound suturing		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d1	Communicate effectively with patients and colleagues		
d2	Apply the principle of professional ethics when providing care to surgical patients		

<b>(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Identify the surgical history and physical examination, Fluid and electrolytes balance and perioperative care	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Recognize the management of simple surgical cases, breast conditions, and bleeding control	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>

b1	Integrate the principles of aseptic technique with the actual situations	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Differentiate between internal and external bleeding and absorbable and non absorbable suturing	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Perform surgical physical examination	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Apply infection control measures when used wound suturing	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Communicate effectively with patients and colleagues	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Apply the principle of professional ethics when providing care to surgical patients	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

**IV. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction to surgery	<ul style="list-style-type: none"> <li>▪ General surgery principles</li> <li>▪ Tissue repair and replacement</li> <li>▪ Inflammation and infection</li> <li>▪ Disinfection and sterilization</li> <li>▪ Anesthesia</li> <li>▪ Body defense mechanisms</li> <li>▪ Surgical infections.</li> </ul>	2	4	a1, b1, c1, d1
2	Health assessment of surgical cases	<ul style="list-style-type: none"> <li>▪ History</li> <li>▪ Physical exam</li> <li>▪ Documentation of results</li> </ul>	2	4	a1, b1, c1, d1
3	Fluid and blood transfusion	<ul style="list-style-type: none"> <li>▪ Fluid and electrolytes balance</li> <li>▪ Blood transfusion</li> </ul>	2	4	a1, b1, c1, d1
4	Perioperative care	<ul style="list-style-type: none"> <li>▪ Pre-operative preparation</li> <li>▪ Intra-operative care</li> <li>▪ Post-operative care</li> <li>▪ Post operative complications <ul style="list-style-type: none"> <li>✓ Hemorrhage</li> <li>✓ Shock</li> <li>✓ Wound infection</li> </ul> </li> </ul>	2	4	a1, b1, c1, d1
5	Midterm exam	Midterm exam	1	2	a1, b1, c1, d1
6	Simple operations	<ul style="list-style-type: none"> <li>▪ Wound suturing</li> <li>▪ Circumcision</li> <li>▪ Open simple abscesses</li> <li>▪ Remove foreign bodies</li> </ul>	3	6	a2, b2, c2, d2
7	Breast conditions	<ul style="list-style-type: none"> <li>▪ Breast abscess</li> <li>▪ Breast tumor</li> </ul>	1	2	a2, b2, c2, d2
8	Bleeding	<ul style="list-style-type: none"> <li>▪ Bleeding <ul style="list-style-type: none"> <li>✓ Types</li> <li>✓ Treatment</li> </ul> </li> </ul>	2	4	a2, b2, c2, d2
9	Final exam	Final exam	1	2	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

## V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

## VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: circumcision	W5	5	a1, c1
2	Assignment 2: abscess open and drainage	W11	5	a2, b2, c2
Total			10	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

## IX. Learning Resources:

<ul style="list-style-type: none"> <li>• <i>Written in the following order:</i> Author, Year of publication, <b>Title</b>, Edition, Place of publication, Publisher.</li> </ul>
<b>1- Required Textbook(s) ( maximum two ) : مثال example</b>
<b>2- Essential References:</b>
<b>3- Electronic Materials and Web Sites etc.:</b>
<b>Websites:</b>
▪

<b>X. Course Policies (2007) Based on the Uniform Students' By law) تترك كما هي</b>	
<b>1</b>	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>2</b>	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
<b>4</b>	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
<b>6</b>	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Pediatric surgery			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	-	2
4	Study Level/ Semester at which this Course is offered:	Second Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain theoretical and practical knowledge about the basic pediatric surgery and the knowledge of diagnosis and investigation.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>M. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a3.1	Know the optimal drugs for pediatric patient	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a4.1	Use the procedures followed before, during and after pediatrics surgery.	A4	Know the procedures followed before, during and after each operation.
a5.1	Use and maintain the equipment and surgical techniques of pediatric surgery .	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b3.1	Prepare the operating room according to the pediatric surgery.	B3	Implementation of special nursing procedures for different surgeries
b4.1	Arrange the instruments in sets of pediatric surgery.	B4	Providing work needs in operating rooms.
b5.1	Implement Safety measures.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Assist in positioning patients on the operation table.	C1	Preparing the operating room and receiving patients undergoing surgery
c2.1	Inspect and prepare the suitable surgical needles	C2	Inspect and organize the equipment fitted on the operating table and give the surgeon
c3.1	Implement medicolegal aspects.	C3	Prepare tools for different stages of the process
c4.1	Handling of ligature materials for any pediatrics surgery	C4	Provide materials and equipment for operation
c5.1	Clean general, plastic, pediatric surgery sets	C5	Cleaning and disinfection of surgical instruments and instruments after surgery
c6.1	Prepare and handling the pediatric surgery sets	C6	Prepare surgical devices and instruments for sterilization in each protocol.
c7.1	Sterile pediatric and surgery sets	C7	Keep all surgical instruments sterile, tidy and ready for use
c8.1	Prepare the patients of, pediatric surgery sets	C8	Prepare the patient before and after the surgery by washing and disinfecting the surgical area.



<b>c10.1</b>	Assist the surgeon during minor and major operation.	<b>C10</b>	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
<b>d2.1</b>	Good communication with patients	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Deal effectively with the surgical	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time according to handling the sets	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department.	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>a3.1</b>	Know the optimal drugs for pediatric patient	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a4.1</b>	Use the procedures followed before, during and after pediatrics surgery.		
<b>a5.1</b>	Use and maintain the equipment and surgical techniques of pediatric surgery .		
<b>a6.1</b>	Understand the principles of sterilization, disinfections and aseptic technique.		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b3.1</b>	Prepare the operating room according to the pediatric surgery.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b4.1</b>	Arrange the instruments in sets of pediatric surgery.		
<b>b5.1</b>	Implement Safety measures.		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
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c1.1	Assist in positioning patients on the operation table.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
c1.1	Assist in positioning patients on the operation table.		
c2.1	Inspect and prepare the suitable surgical needles		
c3.1	Implement medicolegal aspects.		
c4.1	Handling of ligature materials for any pediatrics surgery		
c5.1	Clean general, plastic, pediatric surgery sets		
c6.1	Prepare and handling the pediatric surgery sets		
c7.1	Sterile pediatric and surgery sets		
c8.1	Prepare the patients of, pediatric surgery sets		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

**IV. Course Contents:**

**A. Theoretical Aspect:**

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Introduction</b>	<ul style="list-style-type: none"> <li>The Newborn as a Surgical Patient including metabolic considerations</li> </ul>	1	2	a6.1, a5.1

		<ul style="list-style-type: none"> <li>• Respiratory Physiology and Care</li> <li>• Cardiovascular physiology and Care</li> <li>• Surgical implications of Hematological disease</li> <li>• Nutrition</li> <li>• Pediatrics anesthesia</li> <li>• Ethical and Legal considerations in Pediatrics surgery</li> </ul>			
2	<b>TRAUMA</b>	<ul style="list-style-type: none"> <li>• Thoracic injuries</li> <li>• Abdominal trauma</li> <li>• Musculoskeletal trauma</li> <li>• Central Nervous System Injuries</li> <li>• pediatric oncology</li> <li>• Wilms Tumor</li> <li>• Neuroblastoma</li> <li>• Liver Tumors</li> </ul>	1	2	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
3	<b>TRANSPLANTATION</b>	<ul style="list-style-type: none"> <li>• Principles of transplantation</li> <li>• Kidney transplantation</li> <li>• Pancreatic transplantation</li> <li>• Liver transplantation</li> <li>• Intestinal transplantation</li> <li>• Heart and Lung transplantation</li> <li>• Surgical problems associated with bone marrow transplantation</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
4	<b>HEAD AND NECK</b>	<ul style="list-style-type: none"> <li>• Disorders of the eye</li> <li>• Craniofacial abnormalities</li> <li>• Cleft lip and palate</li> <li>• Otolaryngologic disorders</li> <li>• Salivary glands</li> <li>• Lymph node disorders</li> <li>• Thyroid/Parathyroid disorders</li> <li>• Cysts and Sinuses of the neck</li> <li>• Torticollis</li> </ul>	1	2	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
5	<b>THORAX</b>	<ul style="list-style-type: none"> <li>• Disorders of the breast</li> <li>• Congenital Chest wall deformities</li> <li>• Congenital diaphragmatic hernia and Eventration</li> <li>• Benign Mediastinal Cysts and Tumors</li> <li>• Laryngoscopy, Bronchoscopy, and Thoracoscopy</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

		<ul style="list-style-type: none"> <li>• Lesions of Larynx and trachea</li> <li>• Respiratory problems related to the airway and lung</li> <li>• Disorders of the thoracic cavity and pleura and infections of the lung,</li> <li>• pleura and Mediastinum</li> <li>• Tumors of the lung</li> <li>• Esophagoscopy and other diagnostic techniques</li> </ul>			
6	<b>Med term exam</b>	<b>Med term exam</b>	1	2	All
7	<b>ABDOMEN</b>	<ul style="list-style-type: none"> <li>• Disorders of the Umbilicus</li> <li>• Disorders of the abdominal wall Inguinal Hernia and Hydrocele</li> <li>• Undescended Testis, Torsion and Varicocele</li> <li>• Hypertrophic pyloric stenosis</li> <li>• Peptic Ulcer and Other Conditions of the stomach Duodenal Atresia and Stenosis</li> <li>•</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
8	<b>GENITO-URINARY AND RELATED DISORDERS</b>	<ul style="list-style-type: none"> <li>• Agenesis, Dysplasia and Cystic Disease</li> <li>• Renal Fusions and Ectopia</li> <li>• Congenital Anomalies of the Pyeloureteral Junction and the Ureter</li> <li>• Renal Infection, Abscess, Vesicoureteral Reflux, urinary Lithiasis and</li> <li>• Renal Vein Thrombosis</li> <li>• Ureteral Duplication and Ureteroceles</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
9	<b>SPECIAL AREAS OF PAEDIATRIC SURGERY</b>	<ul style="list-style-type: none"> <li>• Congenital Heart Disease and Anomalies of the Great Vessels</li> <li>• Management of Spina Bifida, Hydrocephalus, Central Nervous System</li> <li>• Infections, and Intractable Epilepsy</li> <li>• Major Congenital Orthopedic Deformities</li> <li>• Bone and Joint Infections</li> <li>• Amputation Considerations in Childhood</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

10	<b>SKIN, SOFT TISSUES, AND BLOOD VESSELS</b>	<ul style="list-style-type: none"> <li>• Congenital Defects of the skin, muscles, Connective tissues, Tendons, and Hands</li> <li>• Tumors of the Soft Tissues</li> <li>• Conjoined Twins</li> <li>• Vascular Anomalies: Hemangiomas and Malformations</li> <li>• Arterial Disorders</li> <li>• Venous Disorders in Childhood</li> <li>• Lymphatic Disorders</li> </ul>	1	2	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
11	<b>Final exam</b>	<b>Final exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<p>Familiar with the following surgery and Use Equipment, and surgical Techniques of:</p> <ul style="list-style-type: none"> <li>- Appendectomy</li> <li>- Congenital defects</li> <li>- Gallbladder surgery</li> <li>- Reproductive defects</li> <li>- Removal of diseased intestines</li> <li>- Imperforate anus</li> </ul>	12	24	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks /and Units Per Semester</b>		<b>12</b>	<b>36</b>	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
<b>Not Applicable</b>				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
<b>Total</b>				

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

Atlas of Pediatric Laparoscopy and Thoracoscopy, 2nd Edition , George W. Holcomb & Steven S. Rothenberg

### 2- Essential References:

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Field Training-1			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	-	-	6
4	Study Level/ Semester at which this Course is offered:	Second Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain practical knowledge in hospitals and health centers. Student will train about the operation theatre 1,2 , general surgery 1, operation technique 1*



III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>N. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
	Must gain All Ci in program		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Good communication with patients	D2	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
d3.1	Deal effectively with the surgical	D3	Work effectively with the team in different situations
d5.1	Mange the time according to handling the sets	D5	Effectively manage time.
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies

<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
Must gain All Ci in program			
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

### 3. Description of Field Training Tasks:

#### 1 – At what stage or stages during the program does the field Training occur?

- The students are required to join government or private hospitals or Health centers placements during the semester study.
- The students must execute a given training program within 8 weeks in an hospitals or Health center placement.
- Registration: fill the registration form and complete the registration procedures.
- Supervision: During the practical training, the student will be assigned to two supervisors (department member and training placement); in order to keep track of the student's performance and to supervise the student's work.
- Weekly Report : Students should document their activities every week, the pending tasks, and task plan for the next week.
- Progress Reports: Description of job assignments and activates.
- Final report: Consolidation of notes, memos, previous reports, collected data on training assignments into one finished and final document.
- Presentation: Presenting the report to a committee or faculty/department members and answering related questions about other details
- Evaluation: The training is evaluated by the training members and supervisors at the hospitals/colleges in secrecy method and faculty/department.

#### 2 – Procedures of Training:

- The Field training is a 3-credit-hour course and must be taken during the semester by those students The Field training period is 8 weeks long during the semester time of second academic year and third academic year. Student must be oriented in one of hospitals, and well supervised in order to accomplish correctly this training. The training can be performed at any private or governmental hospitals/ centers.
- The students should fulfill the department requirements.

- After finishing the training period, they are required to submit a final report.

### **3- Students Tasks:**

- Students register and should fulfill the department requirements a field training.
- Abide by the rules and regulations of the work in the place that trains the student
- Completion of the training period (8 weeks) in the place of training that is selected and approved by the faculty or department.
- Send the contact's form at the beginning of the training period contains the date of commencement of the training, the name, address of training place and the name of the supervisor, to the faculty/department before the end of the second week of the training period.
- Confirmation on the person who is responsible of training to send student's evaluation reports that are filled during the training period to the faculty/department after the end of the training stage directly.
- Provide all necessary information and requirements to write the final report of the field training by the supervisor.
- Report to the place of work; perform duties as agreed with, and or assigned by supervisor.
- Complete a daily attendance log sheet.
- Write a final report for submission to supervisors and to faculty/department members.

### **4- Students Assignments or Reports (if any).**

<b>Title or description these assignments or reports</b>	<b>When are these assignments or reports required?</b>
1- Weekly Report	Every Week
2- Progress report	Week 5
3- Final Report	After returning from the training

### **5- Students Follow-up:**

- Regular visit students at the place of work,
- Check the student's attendance logbook,
- Check the schedule of duties which are assigned to the student,
- Weekly follow ups with the teams by faculty/department supervisors on progress & communication skills
- Evaluate the students' performance and report the grades accordingly.

### **6- Responsibilities of Supervisory Staff in the Field Training:**

- Guiding the students to subsequently follow tasks as per their field training program, translating tasks into training activities in the field.
- Check the day to day activities of the student including the filling in of the daily roster and duties performed,
- Provide the faculty/department with the report demonstrates the level of performance for each student, and sends this report at the end of the training period,
- Evaluate the student using the evaluation criteria provided faculty/department in secrecy method,
- Allow the officials or persons authorized to visit the student when needed during the training period.

### **7- Responsibilities of Supervisory from the Field/ Institution:**

- Provide the student with the appropriate function, and prepare a work plan together with the student,
- Physically visit students at the place of work,
- Check the schedule of duties which are assigned to the student,
- Discuss performance and conduct of the student with the internal supervisor,
- Discuss progress and problems with the student, and assist to solve student's problems,
- Evaluate the students' performance and report the grades accordingly in secrecy method,
- Grade the student's field report and submit the grade to the supervisor for further transmission to relevant departments in the faculty/department.

## **8- Describe the procedures to be used for students guidance and support.**

The student who is candidate for Field training must:

- Should meet the Field training coordinator within the student's department to fill the registration form. The program coordinator sends registration forms to the faculty to complete the registration procedures,
- Spread an instructions and orientation a student according to his interest.
- Complete all procedures and academic/department requirements associated with students training and complete the following:
  - o Receipt of the formal letter from the faculty to the training institution /company, it includes student definition, specialization and as well as evaluation forms that will be needed during the training period.
  - o Receives a file contains important information, guidelines and forms that relate to Field training processes.
  - o Sign a personal pledge to abide by the Field training terms and identify his full address during the training period.
- Communicate with program coordinator/supervisor in order to know the other requirements of the academic department.
- Get an official letter from the Faculty requesting a placement, and the Faculty provides a standard document that the placement provider could use to confirm that appropriate opportunities would be available to the student.
- Work under supervision of the internal supervisor (supervisor from the placement provider). There is an academic supervisor for any trainee from the department in addition to the Internal Supervisor (supervisor from the placement provider).
- Has to observe confidentiality.
- Has to be punctual at work, and has to portray a high level of integrity and respect to others
- Has to obtain a "training certificate", upon completion of the program. This is an important document for one to keep. The certificate has to be completed by the Internal Supervisor.
- A student who will not complete practical training with no obvious reasons will score a failing grade.
- Should submit a report at the end of the training period.
- At the end of the training period, the student and the placement provider fill some forms that will be used in assessing the student.

## **IV. Training Field Contents:**

No	Field	Sub Field	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	General surgery-1	In details	8	6	All Ci, d2,d3,d5,d6
2	Pediatric operations	In details	8	6	All Ci, d2,d3,d5,d6
3	Operation technique-1	In details	8	6	All Ci, d2,d3,d5,d6
4	Final exam	Final exam	1	6	All
Number of Weeks /and Units Per Semester			8	48	

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
Total				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	

6	Final Exam (theoretical)	W14	60	40%	
Total			150	100%	

## IX. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

3- Electronic Materials and Web Sites etc.:

### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.</p>
6	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>

**SYLLABUS**  
**YEAR (2)**  
**SEMESTER (2)**

I. Course Identification and General Information:			
1	Course Title:	Operations Technique-2	
2	Course Code & Number:		
3	Credit Hours:	Credit Hours	Lab. Hours
		Theory Hours	
		Lecture	Exercise
		3	2
		-	2
4	Study Level/ Semester at which this Course is offered:	Second Level/ Second semester	
5	Pre –Requisite (if any):		
6	Co –Requisite (if any):		
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique	
8	Language of Teaching the Course:	English/Arabic	
9	Study System:		
10	Mode of Delivery:		
11	Location of Teaching the Course:		
12	Prepared by:		
13	Date of Approval:	2021	

II. Course Description:
<i>This course is designed to enable students to gain theoretical and practical knowledge about Neuron surgery and its equipment, theory and practical knowledge about ENT surgery and its equipment, theory and practical knowledge about orthopedic surgery and its equipment, theory and practical knowledge about urologic surgery and its equipment, theory and practical knowledge about Maxillofacial surgery and its equipment, .</i>

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)	Referenced PILOs (مخرجات تعلم البرنامج)
<b>O. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:	
a3.1 Know the optimal drugs for patients of neuron surgeries.	A3 Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a3.2 Know the optimal drugs for patients of ENT surgeries.	
a3.3 Know the optimal drugs for patients of orthopedic surgeries.	



<b>a3.4</b>	Know the optimal drugs for patients of urologic surgeries.		
<b>a3.5</b>	Know the optimal drugs for patients of Maxillofacial surgeries.		
<b>a4.1</b>	Use the procedures followed before, during and after neuron surgeries.	<b>A4</b>	Know the procedures followed before, during and after each operation.
<b>a4.2</b>	Use the procedures followed before, during and after ENT surgeries.		
<b>a4.3</b>	Use the procedures followed before, during and after orthopedic surgeries.		
<b>a4.4</b>	Use the procedures followed before, during and after urologic surgeries.		
<b>a4.5</b>	Use the procedures followed before, during and after Maxillofacial surgeries.		
<b>a5.1</b>	Use and maintain the equipment and surgical techniques of various surgery .	<b>A5</b>	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
<b>a6.1</b>	Understand the principles of sterilization, disinfections and aseptic technique.	<b>A6</b>	Understand safety and security methods in the operating room and prevent infection.

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

<b>b3.1</b>	Prepare the operating room according to the neuron operation.	<b>B3</b>	Implementation of special nursing procedures for different surgeries
<b>b3.2</b>	Prepare the operating room according to the ENT operation.		
<b>b3.3</b>	Prepare the operating room according to the orthopedic operation.		
<b>b3.4</b>	Prepare the operating room according to the urologic operation.		
<b>b3.5</b>	Prepare the operating room according to the Maxillofacial operation.		
<b>b4.1</b>	Arrange the instruments in sets of neuron operation.	<b>B4</b>	Providing work needs in operating rooms.
<b>b4.2</b>	Arrange the instruments in sets of ENT operation.		
<b>b4.3</b>	Arrange the instruments in sets of orthopedic operation.		
<b>b4.4</b>	Arrange the instruments in sets of urologic operation.		
<b>b4.5</b>	Arrange the instruments in sets of Maxillofacial operation.		
<b>b5.1</b>	Implement Safety measures.	<b>B5</b>	Discuss preventive methods for patient safety with medical staff and staff in the operating room.

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

<b>c1.1</b>	Assist in positioning patients on the operation table.	<b>C1</b>	Preparing the operating room and receiving patients undergoing surgery
<b>c2.1</b>	Inspect and prepare the suitable surgical needles	<b>C2</b>	Inspect and organize the equipment fitted on the operating table and give the surgeon
<b>c3.1</b>	Implement medicolegal aspects.	<b>C3</b>	Prepare tools for different stages of the process
<b>c4.1</b>	Handling of ligature materials for neuron operation	<b>C4</b>	Provide materials and equipment for operation
<b>c4.2</b>	Handling of ligature materials for ENT operation		
<b>c4.3</b>	Handling of ligature materials for orthopedic operation		
<b>c4.4</b>	Handling of ligature materials for urologic operation		
<b>c4.5</b>	Handling of ligature materials for Maxillofacial operation		
<b>c5.1</b>	Clean neuron surgery sets	<b>C5</b>	Cleaning and disinfection of surgical instruments and instruments after surgery
<b>c5.2</b>	Clean ENT surgery sets		
<b>c5.3</b>	Clean orthopedic surgery sets		
<b>c5.4</b>	Clean urologic surgery sets		
<b>c5.5</b>	Clean Maxillofacial surgery sets		
<b>c6.1</b>	Prepare and handling the neuron surgery sets	<b>C6</b>	Prepare surgical devices and instruments for sterilization in each protocol.
<b>c6.2</b>	Prepare and handling the ENT surgery sets		
<b>c6.3</b>	Prepare and handling the orthopedic surgery sets		
<b>c6.4</b>	Prepare and handling the urologic surgery sets		
<b>c6.5</b>	Prepare and handling the Maxillofacial surgery sets		
<b>c7.1</b>	Sterile neuron and cardiac surgery sets	<b>C7</b>	Keep all surgical instruments sterile, tidy and ready for use
<b>c8.1</b>	Prepare the patients of neuron and cardiac surgery sets	<b>C8</b>	Prepare the patient before and after the surgery by washing and disinfecting the surgical area.
<b>c10.1</b>	Assist the surgeon during minor and major operation.	<b>C10</b>	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
<b>d2.1</b>	Good communication with patients	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.

<b>d3.1</b>	Deal effectively with the surgical	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time according to handling the sets	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department.	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a3.1	Know the optimal drugs for patients of neuron surgeries.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
a3.2	Know the optimal drugs for patients of ENT surgeries.		
a3.3	Know the optimal drugs for patients of orthopedic surgeries.		
a3.4	Know the optimal drugs for patients of urologic surgeries.		
a3.5	Know the optimal drugs for patients of Maxillofacial surgeries.		
a4.1	Use the procedures followed before, during and after neuron surgeries.		
a4.2	Use the procedures followed before, during and after ENT surgeries.		
a4.3	Use the procedures followed before, during and after orthopedic surgeries.		
a4.4	Use the procedures followed before, during and after urologic surgeries.		
a4.5	Use the procedures followed before, during and after Maxillofacial surgeries.		

a5.1	Use and maintain the equipment and surgical techniques of various surgery .		
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b3.1	Prepare the operating room according to the neuron operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
b3.2	Prepare the operating room according to the ENT operation.		
b3.3	Prepare the operating room according to the orthopedic operation.		
b3.4	Prepare the operating room according to the urologic operation.		
b3.5	Prepare the operating room according to the Maxillofacial operation.		
b4.1	Arrange the instruments in sets of neuron operation.		
b4.2	Arrange the instruments in sets of ENT operation.		
b4.3	Arrange the instruments in sets of orthopedic operation.		
b4.4	Arrange the instruments in sets of urologic operation.		
b4.5	Arrange the instruments in sets of Maxillofacial operation.		
b5.1	Implement Safety measures.		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1.1	Assist in positioning patients on the operation table.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
c2.1	Inspect and prepare the suitable surgical needles		
c3.1	Implement medicolegal aspects.		
c4.1	Handling of ligature materials for neuron operation		
c4.2	Handling of ligature materials for ENT operation		

<b>c4.3</b>	Handling of ligature materials for orthopedic operation		
<b>c4.4</b>	Handling of ligature materials for urologic operation		
<b>c4.5</b>	Handling of ligature materials for Maxillofacial operation		
<b>c5.1</b>	Clean neuron surgery sets		
<b>c5.2</b>	Clean ENT surgery sets		
<b>c5.3</b>	Clean orthopedic surgery sets		
<b>c5.4</b>	Clean urologic surgery sets		
<b>c5.5</b>	Clean Maxillofacial surgery sets		
<b>c6.1</b>	Prepare and handling the neuron surgery sets		
<b>c6.2</b>	Prepare and handling the ENT surgery sets		
<b>c6.3</b>	Prepare and handling the orthopedic surgery sets		
<b>c6.4</b>	Prepare and handling the urologic surgery sets		
<b>c6.5</b>	Prepare and handling the Maxillofacial surgery sets		
<b>c7.1</b>	Sterile neuron and cardiac surgery sets		
<b>c8.1</b>	Prepare the patients of neuron and cardiac surgery sets		
<b>c10.1</b>	Assist the surgeon during minor and major operation.		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>d2.1</b>	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
<b>d3.1</b>	Deal effectively with the surgical		
<b>d5.1</b>	Mange the time according to handling the sets		

d6.1	Keep daily register records of operating theatre department		
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IV. Course Contents:					
A. Theoretical Aspect:					
No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	The common operation of Neuron surgery	<ul style="list-style-type: none"> <li>- <b>craniotomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>cranioplasty operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>V. P &amp; E.V shunt operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Pear Hall</b></li> <li>- <b>Nerve release</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>laminectomy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Cervical fixation operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	3	6	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
2	The common operation of ENT surgery	<ul style="list-style-type: none"> <li>- <b>septoplasty operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Tympanoplasty operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>tracheostomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>laryngoscopy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>mastoidectomy operation and Lab</b></li> </ul>	3	6	a3.2, a4.2, a5.1, a6.1, b3.2, b4.2, b5.1, c1.1, c2.1, c3.1, c4.2, c5.2, c6.2, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

		<p>(Definition, Types, Equipment, surgical Techniques)</p> <ul style="list-style-type: none"> <li>- <b>Ear tube insertion operation and Lab</b></li> <li>- (Definition, Types, Equipment, surgical Techniques)</li> </ul>			
3	The common operation of orthopedic surgery	<ul style="list-style-type: none"> <li>- <b>External Fixation operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Internal Fixation operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>splinting operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>ORIF open reduction internal fixation operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Plate fixation operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>D.H.S, D.C.S operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Hibo joint replacement operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Knee joint replacement operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>arthoscopy operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>A.C.L operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Amputation operation and lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	3	6	a3.3, a4.3, a5.1, a6.1, b3.3, b4.3, b5.1, c1.1, c2.1, c3.1, c4.3, c5.3, c6.3, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
4	Mid Term Exam	- <b>Mid Term Exam</b>	1	2	All

5	The common operation of urologic surgery	<ul style="list-style-type: none"> <li>- <b>nephrectomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>nephrostomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>pyelolithotomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>pyeloplasty operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>URS and Duplex J. Fixation, cystoscopy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Cystectomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Hydroxyl resection operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Uranocene operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Hypospadias operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Urethra operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Sarcosine operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>-</li> </ul>	3	6	a3.4, a4.4, a5.1, a6.1, b3.4, b4.4, b5.1, c1.1, c2.1, c3.1, c4.4, c5.4, c6.4, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
6	The common operation of Maxillofacial surgery	<ul style="list-style-type: none"> <li>- <b>Dental Implant operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Facial Injury and Trauma operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	2	4	a3.5, a4.5, a5.1, a6.1, b3.5, b4.5, b5.1, c1.1, c2.1, c3.1, c4.5, c5.5, c6.5, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1



		<ul style="list-style-type: none"> <li>- <b>Oral, Head, and Neck Cancer operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Corrective Jaw operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Cleft Lip and Palate operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Facial Cosmetic operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>			
7	Final exam	Final exam	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

#### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Use Equipment, and surgical Techniques of: <ul style="list-style-type: none"> <li>- <b>craniotomy</b></li> <li>- <b>cranioplasty</b></li> <li>- <b>V. P &amp; E.V shunt</b></li> <li>- <b>Pear Hall</b></li> <li>- <b>Nerve release</b></li> <li>- <b>laminectomy</b></li> <li>- <b>Cervical fixation</b></li> <li>- <b>Parasail Gastrectomy operation</b></li> <li>- <b>Splenectomy operation</b></li> </ul>	3	6	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
2	Use Equipment, and surgical Techniques of: <ul style="list-style-type: none"> <li>- <b>septoplasty</b></li> <li>- <b>Tympanoplasty</b></li> <li>- <b>tracheostomy</b></li> <li>- <b>laryngoscopy</b></li> <li>- <b>mastoidectomy</b></li> <li>- <b>Ear tube insertion</b></li> </ul>	3	6	a3.2, a4.2, a5.1, a6.1, b3.2, b4.2, b5.1, c1.1, c2.1, c3.1, c4.2, c5.2, c6.2, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
3	Use Equipment, and surgical Techniques of: <ul style="list-style-type: none"> <li>- <b>External Fixation</b></li> <li>- <b>Internal Fixation</b></li> <li>- <b>splinting</b></li> <li>- <b>ORIF open reduction internal</b></li> </ul>	3	6	a3.3, a4.3, a5.1, a6.1, b3.3, b4.3, b5.1, c1.1, c2.1, c3.1, c4.3, c5.3, c6.3, c7.1, c8.1,

	<ul style="list-style-type: none"> <li>- fixation</li> <li>- Plate fixation</li> <li>- D.H.S, D.C.S</li> <li>- Hibo joint replacement</li> <li>- Knee joint replacement</li> <li>- orthoscopy</li> <li>- A.C.L</li> <li>- Amputation</li> <li>-</li> </ul>			c10.1, d2.1, d3.1, d5.1, d6.1
4	<p>Use Equipment, and surgical Techniques of:</p> <ul style="list-style-type: none"> <li>- nephrectomy</li> <li>- nephrostomy</li> <li>- pyelolithotomy</li> <li>- pyeloplasty</li> <li>- URS and Duple J. Fixation, cystoscopy</li> <li>- Cystectomy</li> <li>- Hydroxyl resection</li> <li>- Uranocene</li> <li>- Hypospadias</li> <li>- Urethra</li> <li>- Sarcosine</li> <li>-</li> </ul>	3	6	a3.4, a4.4, a5.1, a6.1, b3.4, b4.4, b5.1, c1.1, c2.1, c3.1, c4.4, c5.4, c6.4, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
5	<p>Use Equipment, and surgical Techniques of:</p> <ul style="list-style-type: none"> <li>- Dental Implant</li> <li>- Facial Injury and Trauma</li> <li>- Oral, Head, and Neck Cancer</li> <li>- Corrective Jaw</li> <li>- Cleft Lip and Palate</li> <li>- Facial Cosmetic</li> <li>-</li> </ul>	3	6	a3.5, a4.5, a5.1, a6.1, b3.4, b4.5, b5.1, c1.1, c2.1, c3.1, c4.5, c5.5, c6.5, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks /and Units Per Semester</b>		15	30	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

## VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
<b>Total</b>				

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

- Handbook of Surgical Technique: A True Surgeon's Guide to Navigating the Operating Room 1st Edition, by Christopher J. Hartman (Author), Louis R. Kavoussi MD MBA (Author)
- A Practical Guide to Surgical Instruments: X-Rays and Operative Interventions [Print Replica] Kindle Edition by Ajay Kumar Agrawal (Author), Neelabh Agrawal (Author), Sneha Agrawal (Author)

**2- Essential References:****3- Electronic Materials and Web Sites etc.:****Websites:**

- An Online Medical Dictionary

**X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)**

<b>1</b>	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>2</b>	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
<b>4</b>	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
<b>6</b>	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Forensic Medicine			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

The aim of the course is to provide the student with essential knowledge, and attitudes needed to fulfill her/ his obligations towards the patient whether alive or dead, and to develop the role in the recognition, collection and preservation of forensic evidence in the pursuit of societal justice in her/ his community.

**III. Course Intended Learning Outcomes (CILOs) :**  
(مخرجات تعلم المقرر)

**Referenced PILOs**  
(مخرجات تعلم البرنامج)

**P. Knowledge and Understanding:** Upon successful completion of the course, students will be able to:

a1	Describe how to diagnose death, violent asphyxia, Sexual offences, and the cause of death with wounds		
a2	Explain the medico-legal aspects of virginity, abortion and common categories of drugs abused and general principles of care of poisoned patient.		

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Differentiate between pathological causes from those caused by assaults, accidents, or suicidal attempts		
b2	Compare between natural and unnatural death, suicidal, accidental and homicidal injuries.		

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Demonstrate the diagnosis and management of the most common types of forensic medicine problems		
c2	Apply basic principles of forensic medicine and clinical toxicology		

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Use appropriate interpersonal communication skills.		
d2	Implement the medical ethics in the different clinical situations		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<u>Course Intended Learning Outcomes</u>		Teaching Strategies	Assessment Strategies
a1	Describe how to diagnose death, violent asphyxia, Sexual offences, and the cause of death with wounds	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Explain the medico-legal aspects of virginity, abortion and common categories of drugs abused and general principles of care of poisoned patient.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Differentiate between pathological causes from those caused by assaults, accidents, or suicidal attempts	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Compare between natural and unnatural death, suicidal, accidental and homicidal injuries.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Demonstrate the diagnosis and management of the most common types of forensic medicine problems	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Apply basic principles of forensic medicine and clinical toxicology	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Use appropriate interpersonal communication skills.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Implement the medical ethics in the different clinical situations	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

**IV. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Bioethics	<ul style="list-style-type: none"><li>• Bioethics</li></ul>	1		a1,
2	Death and Postmortem changes	<ul style="list-style-type: none"><li>• Death</li><li>• Signs of death</li><li>• Brain death</li><li>• Postmortem changes</li></ul>	1		a1,
3	Wounds and forensic science	<ul style="list-style-type: none"><li>• Wounds classification</li><li>• Wounds &amp; forensic science</li><li>• Sharp trauma</li><li>• Blunt trauma</li><li>• Fire arm weapon and wounds</li><li>• Complication of wounds</li><li>• Cause of death with wounds</li></ul>	2		a1, b1, c1, d1
4	Asphyxia	<ul style="list-style-type: none"><li>• Asphyxia</li><li>• Violent asphyxia</li><li>• Definition</li><li>• Clinical picture</li></ul>	1		a1, b1, c1, d1
5	Sexual offences	<ul style="list-style-type: none"><li>• Sexual offences</li></ul>	1		a1, b1, c1, d1
6	Infants death, Pregnancy & Abortion	<ul style="list-style-type: none"><li>• Infants death</li><li>• Medico-legal aspects of Pregnancy &amp; Abortion</li></ul>	1		a1, b1, c1, d1
7		Midterm exam	1		a1, b1, c1, d1
8	Different types of decontamination	<ul style="list-style-type: none"><li>• Decontamination</li><li>• Types of decontamination</li></ul>			a2, b2, c2, d2
9	Toxicology and Poisoning	<ul style="list-style-type: none"><li>• Toxicology</li><li>• Classification of poisoning, Diagnosis and treatment</li><li>• Corrosives.</li><li>• Metallic irritant poisons</li><li>• Non metallic irritant poisons (pesticides).</li><li>• House hold toxicity</li><li>• Kerosene</li><li>• Phenol</li><li>• CO</li><li>• Animal Poisoning</li><li>• Volatiles</li><li>• Snake bites</li><li>• Scorpion</li></ul>	3		a2, b2, c2, d2



10	Drugs of abuse	<ul style="list-style-type: none"> <li>• Drugs of abuse</li> <li>• Analgesics.</li> <li>• Hypnotics</li> <li>• Narcotics</li> <li>• Drug toxicity</li> </ul>			a2, b2, c2, d2
11		Final exam	1	2	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

### V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: violent asphyxia.	W5	5	a1, c1
2	Assignment 2: common categories of drugs abused	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,

2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

3- Electronic Materials and Web Sites etc.:

Websites:

▪

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
6	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>

## I. Course Identification and General Information:

1	Course Title:	Epidemiology			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Credit hours
			Lecture	Exercise	
		1	-	2	2
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

This course focuses on the pattern of occurrence of communicable and non-communicable disease of significance importance in the community and its effect on national health status. Also the course will be introduced the essential epidemiological terminologies and control and prevention methods to communicable and non-communicable disease.

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

**Q. Knowledge and Understanding:** Upon successful completion of the course, students will be able to:

a1	Identify the concepts of disease occurrence, chain of infection, levels of prevention and methods of control of communicable diseases		
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a2	Recognize methods of surveillance, screening and types of studies in epidemiology		
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b1	Analyze determinant of health and principles of preventive and control of common health problems		
b2	Compare between descriptive and experimental epidemiological studies and measures of risk		
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1	Implement epidemiological studies based on observation		
c2	Apply infection control measures to control of communicable diseases		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d1	Employ effective communication and accurate documentation while providing methods of control of communicable diseases		
d2	Use an internet and computer while studying observational and experimental studies		

<b>(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>	
a1	Identify the concepts of disease occurrence, chain of infection, levels of prevention and methods of control of communicable diseases	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Recognize methods of surveillance, screening and types of studies in epidemiology	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>	

b1	Analyze determinant of health and principles of preventive and control of common health problems	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Compare between descriptive and experimental epidemiological studies and measures of risk	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Implement epidemiological studies based on observation	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Apply infection control measures to control of communicable diseases	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Employ effective communication and accurate documentation while providing methods of control of communicable diseases	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Use an internet and computer while studying observational and experimental studies	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

**IV. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction to epidemiology	<ul style="list-style-type: none"> <li>▪ The historical context.</li> <li>▪ Definition of epidemiology</li> <li>▪ Objectives of epidemiology.</li> <li>▪ Uses of epidemiology</li> </ul>	1	2	a1, b1, d1
2	Concepts of Disease Occurrence	<ul style="list-style-type: none"> <li>▪ Epidemiologic Triangle (Triad)</li> <li>▪ Epidemiologic Concepts</li> </ul>	1	2	a1, b1, d1
3	Chain of Infection	<ul style="list-style-type: none"> <li>▪ Reservoir</li> <li>▪ Portal of exit</li> <li>▪ Modes of transmission</li> <li>▪ Portal of entry</li> <li>▪ Host</li> </ul>	1	2	a1, b1, c1, d1
4	Levels of prevention	<ul style="list-style-type: none"> <li>▪ Definition of prevention</li> <li>▪ Levels of prevention: <ul style="list-style-type: none"> <li>- Primary prevention</li> <li>- Secondary prevention</li> <li>- Tertiary prevention</li> </ul> </li> </ul>	1	2	a1, b1, c1, d1
5	Methods of control of communicable diseases	<ul style="list-style-type: none"> <li>▪ Main methods of control <ul style="list-style-type: none"> <li>✓ Elimination of Reservoir of Infection</li> <li>✓ Interruption of Transmission</li> <li>✓ Susceptible Host Protection</li> </ul> </li> <li>▪ General methods for control of communicable diseases <ul style="list-style-type: none"> <li>✓ Preventive Measures</li> <li>✓ Control of Patient, Contact and Environment</li> <li>✓ Epidemic Measures</li> <li>✓ International Measures</li> </ul> </li> <li>▪ Nursing function in communicable diseases control</li> </ul>	1	2	a1, b1, c1, d1
6	Measures of risk	<ul style="list-style-type: none"> <li>▪ Frequency Measures</li> <li>▪ Morbidity Frequency Measure</li> <li>▪ Mortality Frequency Measures</li> <li>▪ Birth Measures</li> <li>▪ Measures of Association</li> </ul>	1	2	a1, b1, d1
7		Midterm exam	1	2	a1, b1, c1, d1
8	Epidemiology methods of surveillance	Methods of surveillance in epidemiology	1	2	a2, d2
9	Screening	Screening	1	2	a2, d2

10	Types of epidemiological studies	<ul style="list-style-type: none"> <li>▪ Observation epidemiology</li> <li>▪ Experimental epidemiology</li> </ul>	5	10	a2, c2, d2
11		<b>Final exam</b>	1	2	a2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

<b>B. Case Studies and Practical Aspect:</b>				
No.	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Tb Center visit	3	12	c1, c2
2	Heal centers visits	3	12	c1, c2
3	Hospital visit CSD, Isolation department	3	12	c1, c2
4	Census and statistical office	2	8	c1, c2
5				
6				
7				
8				
9				
10				
11				
12				
<b>Number of Weeks /and Units Per Semester</b>				

<b>V. Teaching Strategies of the Course:</b>
<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming</li> <li>▪ Role-play and simulation</li> <li>▪ Small group discussion</li> <li>▪ Learning tasks and activities</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>

<b>VI. Assessment Methods of the Course:</b>
<ul style="list-style-type: none"> <li>• Assignments</li> <li>• Quizzes</li> <li>• Mid-term exam</li> <li>• Final term exam</li> </ul>

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: analytical cross-sectional study	W5	5	a1, c1
2	Assignment 2: cohort study	W11	5	a2, b2, c2
Total			10	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

4.

### 2- Essential References:

1.

### 3- Electronic Materials and Web Sites etc.:

Websites:

▪

## X. Course Policies

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b>



	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Operations Theater-3			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		4	2	-	2
4	Study Level/ Semester at which this Course is offered:	Second Level/ Second semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain technical competence based on knowledge judgment and skills to carry out proper and safe technique in all types of surgical procedures in operation theatre.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>R. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a4.1	Understand the procedure followed in operation room for each operation.	A4	Know the procedures followed before, during and after each operation.
a5.1	Use the suitable suture materials for different operation .	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b3.1	Prepare the operating room according to the specific operation.	B3	Implementation of special nursing procedures for different surgeries
b4.1	Arrange the instruments in sets according to the specific operation.	B4	Providing work needs in operating rooms.
b5.1	Implement Safety measures.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Assist in positioning patients on the operation table.	C1	Preparing the operating room and receiving patients undergoing surgery
c2.1	Inspect and prepare the suitable surgical needles	C2	Inspect and organize the equipment fitted on the operating table and give the surgeon
c3.1	Implement medicolegal aspects.	C3	Prepare tools for different stages of the process
c4.1	Handling of ligature materials for any operation	C4	Provide materials and equipment for operation
c10.1	Assist the surgeon during minor and major operation.	C10	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Good communication with patients	D2	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a4.1	Understand the procedure followed in operation room for each operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
a5.1	Use the suitable suture materials for different operation .	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
b3.1	Prepare the operating room according to the specific operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
b4.1	Arrange the instruments in sets according to the specific operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
b5.1	Implement Safety measures.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
c1.1	Assist in positioning patients on the operation table.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
c2.1	Inspect and prepare the suitable surgical needles	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record.

			Practical exam
<b>c3.1</b>	Implement medicolegal aspects.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c4.1</b>	Handling of ligature materials for any operation	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c10.1</b>	Assist the surgeon during minor and major operation.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>d2.1</b>	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
<b>d6.1</b>	Keep daily register records of operating theatre department.	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record

**IV. Course Contents:**

**A. Theoretical Aspect:**

<b>No</b>	<b>Units/Topics List</b>	<b>Sub Topics List</b>	<b>No of Weeks</b>	<b>Contact Hours</b>	<b>Learning Outcomes (CLOs)</b>
1	<b>Ligature and suture materials</b>	- Types – size use and sterilization	<b>5</b>	<b>10</b>	a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c10.1

		- Handling of ligature materials Blades – size			
2	<b>Draping operation area and assisting the surgeon</b>	- Preparing the operation area - Draping the operation area - Assisting the surgeon	5	10	b3.1, b4.1, b5.1, c1.1, c4.1, c3.1, c10.1, d2.1
3	<b>Midterm Exam</b>	<b>Midterm exam</b>	1	2	All
4	<b>-surgical needles</b>	- Classification – uses – cure - Cleaning – sterilization /Disinfections	4	8	b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c10.1
5	<b>Final exam</b>	<b>Final exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

#### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Know Ligature and suture materials</b>	1	4	a5.1, a6.1, b4.1, b5.1, c1.1, c10.1
2	<b>Prepare Ligature and suture materials</b>	1	4	a5.1, a6.1, b4.1, b5.1, c1.1, c10.1
3	<b>Handling of ligature materials</b>	1	4	a5.1, a6.1, b4.1, b5.1, c1.1, c10.1
4	<b>Handling of ligature materials with different size</b>	1	4	a5.1, a6.1, b4.1, b5.1, c1.1, c10.1
5	<b>Preparing the operation area</b>	1	4	b3.1, b4.1, b5.1, c1.1, c4.1, c3.1, c10.1
6	<b>Draping the operation area</b>	1	4	b3.1, b4.1, b5.1, c1.1, c4.1, c3.1, c10.1
7	<b>Assisting the surgeon</b>	1	4	b3.1, b4.1, b5.1, c1.1, c4.1, c3.1, c10.1, d2/1
8	<b>Know all surgical needles</b>	1	4	b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c10.1

9	<b>Classify all surgical needles</b>	1	4	b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c10.1
10	<b>Clean and sterilization all surgical needles</b>	1	4	b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c10.1
11	<b>Final exam</b>	1	4	All
<b>Number of Weeks /and Units Per Semester</b>		11	44	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Write and classify the surgical needles	12	5	All
<b>Total</b>				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	

3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

- 3- Brigden (1972) operatiob theatre technique, second edition Livingstone.
- 4- Alkison,Lucy (1988) Berry and Kolin's introduction to operating room technique, Fifth Edition, NewYork, MCGron Hill book Camp.

### 2- Essential References:

- 1- Brigden (1972) operatiob theatre technique, second edition Livingstone.
- 2- Alkison,Lucy (1988) Berry and Kolin's introduction to operating room technique, Fifth Edition, NewYork, MCGron Hill book Camp.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b>



	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Surgery-2			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	-	-
4	Study Level/ Semester at which this Course is offered:	Second Level/ Second semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to help students to acquire and understanding of various surgical disorders and their management in order to give comprehensive care for patients undergoing anesthesia and during recovery.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>S. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a3.1	Know the optimal drugs for patients of specific surgery.	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a4.1	Use the procedures followed before, during and after specific surgeries.	A4	Know the procedures followed before, during and after each operation.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b5.1	Implement Safety measures.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c3.1	Implement medicolegal aspects.	C3	Prepare tools for different stages of the process
c11.1	Observe Skillfully patients signs & Symptoms and interpret such observation accurately.	C11	Send any samples taken for examination and follow-up laboratory procedures.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Good communication with patients	D2	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
d3.1	Deal effectively with the others	D3	Work effectively with the team in different situations
d5.1	Mange the time according to handling the sets	D5	Effectively manage time.
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a3.1	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
a4.1		

<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b5.1</b>	Implement Safety measures.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>c3.1</b>	Implement medicolegal aspects.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c11.1</b>	Observe Skillfully patients signs & Symptoms and interpret such observation accurately.		
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

<b>IV. Course Contents:</b>					
<b>A. Theoretical Aspect:</b>					
<b>No</b>	<b>Units/Topics List</b>	<b>Sub Topics List</b>	<b>No of Weeks</b>	<b>Contact Hours</b>	<b>Learning Outcomes (CLOs)</b>
1	Urinary problems	1.Surgical conditions of the kidney * Repture of the kidney * Hydronephrosis * Renal calculus * Renal tumour 2.Bladder * Bladder injuries	4	8	a3.1, a4.1, b5.1, c3.1, c11.1, d2.1, d3.1, d5.1, d6.1

		<p>3.Urethra</p> <ul style="list-style-type: none"> <li>* Urethra stricture</li> <li>* Phimosis</li> <li>* Circumcision</li> </ul> <p>4.Tests</p> <ul style="list-style-type: none"> <li>* Hydrocele</li> <li>* Varicocele</li> <li>* epididymo orchitis</li> <li>* vasectomy</li> </ul>			
2	Musculo Skeletal Problems	<p>1.Injuries of the scalp</p> <ul style="list-style-type: none"> <li>* wound</li> <li>* Haematoma</li> </ul> <p>2.Fractures of the skull</p> <ul style="list-style-type: none"> <li>* vault fracture</li> <li>* fissures fracture</li> <li>* Depressed fracture</li> </ul> <p>3.Injuries of the Brain</p> <ul style="list-style-type: none"> <li>* Intracranial pressure</li> <li>* Intracranial Haemorrhage</li> <li>* Intra dural &amp; subdural haemorrhage</li> </ul>	2	4	a3.1, a4.1, b5.1, c3.1, c11.1, d2.1, d3.1, d5.1, d6.1
3	Midterm exam	<b>Midterm exam</b>	1	2	All
4	Integumentry problems	<p>1.Surgical conditions of the skin</p> <p>skin tumour</p> <ul style="list-style-type: none"> <li>- Benign</li> <li>- Malignant</li> </ul> <ul style="list-style-type: none"> <li>* Boils</li> <li>* fruncles &amp; carbuncles</li> <li>* Dermatologic &amp; Plastic Reconstruction surgery</li> </ul> <p>2.Burns and Scalde</p>	2	4	a3.1, a4.1, b5.1, c3.1, c11.1, d2.1, d3.1, d5.1, d6.1
5	Breast problems	<p>Surgical conditions of the breast</p> <ul style="list-style-type: none"> <li>* Mastitis</li> <li>* Abscess</li> <li>* tumours</li> <li>* plastic reconstructive of breast</li> </ul>	2	4	a3.1, a4.1, b5.1, c3.1, c11.1, d2.1, d3.1, d5.1, d6.1
6	*Laparoscopic surgery	<ul style="list-style-type: none"> <li>* Shock</li> <li>* Hazards of Surgery</li> </ul>	4	8	a3.1, a4.1, b5.1, c3.1, c11.1, d2.1, d3.1, d5.1, d6.1
7	Final exam	<b>Final exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
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Not Applicable

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CIOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CIOs (symbols)
Not Applicable				
Total				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	10	10%	
2	Quizzes		10	10%	
3	Laboratory attendance & reports (practical)				
4	Written Test (practical)				
5	Med-Term Exam (theoretical)	W9	20	20 %	
6	Final Exam (theoretical)	W14	60	60%	
Total			100	100%	

## IX. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

### 1- Required Textbook(s) ( maximum two ): مثال example

- 1.D.F.Ellison Nash *The principles and practice of Surgery for Nurses and Allied professions,* Fifth Edition Edward Arnold
2. David A. Macfarlane , *Lewis Thomas Text book of Surgery Forth Edition , Churchill Livingstone*

### 2- Essential References:

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

**Standard II: Course Identification and General Information:**

1	<b>Course Title:</b>	<b>Obstetrics &amp; gynecology</b>				
2	<b>Course Number &amp; Code:</b>					
3	<b>Credit hours:</b>	<b>C.H</b>				<b>Total</b>
		<b>Th.</b>	<b>Pr.</b>	<b>Tut.</b>	<b>Tr.</b>	
		<b>2</b>	<b>--</b>	<b>NA</b>	<b>3</b>	<b>3</b>
4	<b>Study level/year at which this course is offered:</b>					
5	<b>Pre –requisite (if any):</b>					
6	<b>Co –requisite (if any):</b>					
7	<b>Name of faculty member responsible for the course:</b>					
8	<b>Program (s) in which the course is offered:</b>					
9	<b>Language of teaching the course:</b>					
10	<b>Location of teaching the course:</b>					
11	<b>Prepared By:</b>					
12	<b>Approved By:</b>					

**Standard III: Course Description:**

This course focuses on identification of medical diseases with effects on reproductive system and mothers who have experienced gynecological problems and those who have surgeries. The course introduces the normal aspects of the maternity. It also considers gynecological conditions of women in different stages of their live.

**Standard IV: Professional Information:****Aims of The Course:****Brief summary of the knowledge or skill the course is intended to develop:**

1. Reviews the anatomy and physiology of female reproductive system, development and physiology of fetus, normal pregnancy and labor.
2. Discuss principles, assessment techniques and physical assessment of prenatal care.
3. Identify major gynecological problems, diseases and complications of ante natal, natal and post natal period.
4. Render Pre-Post-operative care of surgical gynecological and obstetrical cases.
5. Describe medical management of maternity during deviations from normality in the various stages of a woman's life cycle.
6. Participate in preparation for labor and delivery

**Intended learning outcomes (ILOs) of the course:**

A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
A1. Describe the anatomy and physiology of female reproductive system	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type



A2. Discuss the concept of fertilization	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A3. Recognize the positive signs of pregnancy	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A4. Discuss principles, assessment techniques and physical assessment of prenatal care	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A5. Explain mechanism of labor	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A6. Describe preeclampsia	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A7. Discuss anemia during pregnancy	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A8. Identify Complication during labor and delivery	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type
A9. Enumerate indication of cesarean section	Lecture -Discussion Demonstration Group discussions	Short answers Objective Type

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
B1. Discuss nutrition during pregnancy	Lecture discussion Brain storming	Essay type Short answers Objective type
B2. Differentiate between different types of abortion	Lecture discussion Brain storming	Essay type Short answers Objective type
B3. Discuss causes of ante-partum hemorrhage	Lecture discussion Brain storming	Essay type Short answers Objective type
B4. Compare between normal and abnormal labor	Lecture discussion Brain storming	Essay type Short answers Objective type
B5. Compare between different fetus position	Lecture discussion Brain storming	Essay type Short answers Objective type

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
C1. Perform general & local examination for pregnant woman	Lecture discussion Brain storming Practical	Essay type Short answers Objective type
C2. Monitor stages of labor using different assessment measures	Lecture discussion Brain storming Practical	Essay type Short answers Objective type

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning	Outcomes Teaching strategies	Assessment Strategies
D1. Work with a team in maternity sitting effectively	Lecture-discussion Brain storming Group discussion	Essay type Short answers Objective type
D2. Apply the principle of professional ethics in maternal and newborn care	Lecture-discussion Brain storming Group discussion	Essay type Short answers Objective type
D3. Utilize effective interpersonal communication skills when dealing with women and their families	Lecture-discussion Brain storming Group discussion	Essay type Short answers Objective type

## v: Course Content:

### 1 – Course Topics/Items:

#### a – Theoretical Aspect:

Order	Topic List	Sub Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Introduction	<ul style="list-style-type: none"> <li>▪ Introduction</li> <li>▪ Anatomy and physiology of female and male reproductive system</li> <li>▪ Sexual maturity,</li> <li>▪ Menstrual cycle</li> <li>▪ Infertility and menopause</li> </ul>	1	1	A1
2	Development and physiology of fetus	<ul style="list-style-type: none"> <li>▪ Maturation of ovum and sperm cell.</li> <li>▪ Fertilization</li> <li>▪ Implantation of the ovum</li> <li>▪ Placenta</li> </ul>	1	1	A2
3	Normal pregnancy	<ul style="list-style-type: none"> <li>▪ Physiological changes of pregnancy</li> <li>▪ Changes in various systems</li> <li>▪ Presumptive signs of</li> </ul>	1	1	A3, B4

		<ul style="list-style-type: none"> <li>pregnancy</li> <li>▪ Positive signs of pregnancy</li> </ul>			
4	Prenatal care	<ul style="list-style-type: none"> <li>▪ Medical History</li> <li>▪ Physical examination.</li> <li>▪ Obstetrical examination.</li> <li>▪ Nutrition during pregnancy.</li> <li>▪ Discomforts during pregnancy.</li> <li>▪ Preparation for labor and delivery.</li> </ul>	2	2	A4, B1, C1
5	Labor	<ul style="list-style-type: none"> <li>▪ Mechanism of labor (stages).</li> </ul>	1	1	A5
6	Mid Term Exam	Mid Term Exam	1	1	A1,A2, A3, A4, A5, B1
7	Complications associated with pregnancy	<ul style="list-style-type: none"> <li>▪ Ante partum hemorrhage</li> <li>▪ Abortion</li> <li>▪ Ectopic pregnancy.</li> <li>▪ Placenta previa.</li> <li>▪ Abruption placenta.</li> <li>▪ Toxemia of pregnancy.</li> <li>▪ Preeclampsia</li> <li>▪ Eclampsia</li> </ul>	2	2	A6, B2, B3
8	Diseases During pregnancy	<ul style="list-style-type: none"> <li>▪ Anemia.</li> <li>▪ Heart diseases.</li> <li>▪ Gestational Diabetes.</li> </ul>	1	1	A7
9	Complication during labor and delivery.	<ul style="list-style-type: none"> <li>▪ Complication during labor and delivery.</li> <li>▪ Multiple pregnancies.</li> <li>▪ Prolapse umbilical cord.</li> <li>▪ Inversion of uterus.</li> <li>▪ Rupture of uterus.</li> <li>▪ Puerperal infection.</li> <li>▪ Disorder of breast.</li> <li>▪ Pulmonary embolism.</li> </ul>	2	2	A8
10	Abnormal fetus position	<ul style="list-style-type: none"> <li>▪ Occipital and posterior position.</li> <li>▪ Face presentation.</li> <li>▪ Brow presentation.</li> <li>▪ Breech presentation.</li> <li>▪ Transverse presentation.</li> </ul>	1	1	B4, B5
11	Obstetric surgeries.	<ul style="list-style-type: none"> <li>▪ Forceps delivery.</li> <li>▪ Cesarean section.</li> <li>▪ Induction of labor.</li> </ul>	1	1	A9, B4
12	Final exam	Final exam	1	2	A1,A2, A3, A4, A5, A6, A7, A8, B3, B4

**Number of Weeks /and Units Per Semester**

**15**

**16**

**B – Practical Aspect:**

Order	Task/ Experiments	Number of Weeks	contact hours	Learning Outcomes
	<b>Not Applicable</b>			

**V. Teaching strategies of the course**

1. Lecture - Discussion
2. Demonstration
3. Role Plays
4. Brainstorming
5. Case study

**VI. Assignments**

No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
<b>1</b>	Antenatal care	A3, A4, B1, B4	<b>4-10</b>	<b>5</b>

**VII. Schedule of Assessment Tasks for Students During the Semester**

No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
<b>1</b>	Attendance and activities	15 <sup>th</sup> week	<b>5</b>	<b>5%</b>	A1, A2, A3, A4, A5, A6, A7, A8, B3
<b>2</b>	Student assignments	5 <sup>th</sup> and 12 <sup>th</sup> week	<b>5</b>	<b>5%</b>	A3, A4, B1, B4
<b>3</b>	Mid-term exam	7 <sup>th</sup> or 8 <sup>th</sup> week	<b>20</b>	<b>20%</b>	A1, A2, A3, A4, A5, B1
<b>4</b>	Final-exam	16 <sup>th</sup> -17 <sup>th</sup> week	<b>70</b>	<b>70%</b>	A1, A2, A3, A4, A5, A6, A7, A8, B3, B4
	<b>Total</b>		<b>100</b>	<b>100%</b>	

**Clinical Part**

No	Assessments Methods	Week due	Mark	Proportion of Final Assessments	Aligned Course Learning Outcomes
	<b>Not Applicable</b>				

## VII: Learning Resources:

### 3. Required Textbook(s) ( maximum two ).

1. Whitefield CR and Dewhurt S (2005). Textbook of obstetric and gynecology, 6th ed

#### 1. Essential References.

1. Gabbe, S, Niebyl, J and Simpson J(2004). Obstetrics: Normal and Problem Pregnancies, 4th ed. Churchill Livingstone.

#### 2. Electronic Materials and Web Sites *etc.*

1. www.PubMed.com
2. www.women health.com
3. www.google.com
4. www.who.org

## IX. Course Policies:

<b>1</b>	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
<b>2</b>	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
<b>3</b>	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
<b>4</b>	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
<b>5</b>	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
<b>6</b>	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

## I. Course Identification and General Information:

1	Course Title:	Field Training-2			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		6	-	-	18
4	Study Level/ Semester at which this Course is offered:	Second Level/ Second semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain practical knowledge in hospitals and health centers. Student will train about the operation theatre 2 , general surgery 2, operation technique 2, Gyne & obstetrics medicine.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>T. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
	Must gain All Ci in program		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Good communication with patients	D2	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
d3.1	Deal effectively with the surgical	D3	Work effectively with the team in different situations
d5.1	Mange the time according to handling the sets	D5	Effectively manage time.
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies

<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
Must gain All Ci in program			
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

#### **4. Description of Field Training Tasks:**

##### **1 – At what stage or stages during the program does the field Training occur?**

- The students are required to join government or private hospitals or Health centers placements during the semester study.
- The students must execute a given training program within 8 weeks in an hospitals or Health center placement.
- Registration: fill the registration form and complete the registration procedures.
- Supervision: During the practical training, the student will be assigned to two supervisors (department member and training placement); in order to keep track of the student's performance and to supervise the student's work.
- Weekly Report : Students should document their activities every week, the pending tasks, and task plan for the next week.
- Progress Reports: Description of job assignments and activates.
- Final report: Consolidation of notes, memos, previous reports, collected data on training assignments into one finished and final document.
- Presentation: Presenting the report to a committee or faculty/department members and answering related questions about other details
- Evaluation: The training is evaluated by the training members and supervisors at the hospitals/colleges in secrecy method and faculty/department.

##### **3 – Procedures of Training:**

- The Field training is a 3-credit-hour course and must be taken during the semester by those students The Field training period is 8 weeks long during the semester time of second academic year and third academic year. Student must be oriented in one of hospitals, and well supervised in order to accomplish correctly this training. The training can be performed at any private or governmental hospitals/ centers.
- The students should fulfill the department requirements.



- After finishing the training period, they are required to submit a final report.

### **3- Students Tasks:**

- Students register and should fulfill the department requirements a field training.
- Abide by the rules and regulations of the work in the place that trains the student
- Completion of the training period (8 weeks) in the place of training that is selected and approved by the faculty or department.
- Send the contact's form at the beginning of the training period contains the date of commencement of the training, the name, address of training place and the name of the supervisor, to the faculty/department before the end of the second week of the training period.
- Confirmation on the person who is responsible of training to send student's evaluation reports that are filled during the training period to the faculty/department after the end of the training stage directly.
- Provide all necessary information and requirements to write the final report of the field training by the supervisor.
- Report to the place of work; perform duties as agreed with, and or assigned by supervisor.
- Complete a daily attendance log sheet.
- Write a final report for submission to supervisors and to faculty/department members.

### **4- Students Assignments or Reports (if any).**

<b>Title or description these assignments or reports</b>	<b>When are these assignments or reports required?</b>
4- Weekly Report	Every Week
5- Progress report	Week 5
6- Final Report	After returning from the training

### **5- Students Follow-up:**

- Regular visit students at the place of work,
- Check the student's attendance logbook,
- Check the schedule of duties which are assigned to the student,
- Weekly follow ups with the teams by faculty/department supervisors on progress & communication skills
- Evaluate the students' performance and report the grades accordingly.

### **6- Responsibilities of Supervisory Staff in the Field Training:**

- Guiding the students to subsequently follow tasks as per their field training program, translating tasks into training activities in the field.
- Check the day to day activities of the student including the filling in of the daily roster and duties performed,
- Provide the faculty/department with the report demonstrates the level of performance for each student, and sends this report at the end of the training period,
- Evaluate the student using the evaluation criteria provided faculty/department in secrecy method,
- Allow the officials or persons authorized to visit the student when needed during the training period.

### **7- Responsibilities of Supervisory from the Field/ Institution:**

- Provide the student with the appropriate function, and prepare a work plan together with the student,
- Physically visit students at the place of work,
- Check the schedule of duties which are assigned to the student,
- Discuss performance and conduct of the student with the internal supervisor,
- Discuss progress and problems with the student, and assist to solve student's problems,
- Evaluate the students' performance and report the grades accordingly in secrecy method,
- Grade the student's field report and submit the grade to the supervisor for further transmission to relevant departments in the faculty/department.

## **8- Describe the procedures to be used for students guidance and support.**

The student who is candidate for Field training must:

- Should meet the Field training coordinator within the student's department to fill the registration form. The program coordinator sends registration forms to the faculty to complete the registration procedures,
- Spread an instructions and orientation a student according to his interest.
- Complete all procedures and academic/department requirements associated with students training and complete the following:
  - o Receipt of the formal letter from the faculty to the training institution /company, it includes student definition, specialization and as well as evaluation forms that will be needed during the training period.
  - o Receives a file contains important information, guidelines and forms that relate to Field training processes.
  - o Sign a personal pledge to abide by the Field training terms and identify his full address during the training period.
- Communicate with program coordinator/supervisor in order to know the other requirements of the academic department.
- Get an official letter from the Faculty requesting a placement, and the Faculty provides a standard document that the placement provider could use to confirm that appropriate opportunities would be available to the student.
- Work under supervision of the internal supervisor (supervisor from the placement provider). There is an academic supervisor for any trainee from the department in addition to the Internal Supervisor (supervisor from the placement provider).
- Has to observe confidentiality.
- Has to be punctual at work, and has to portray a high level of integrity and respect to others
- Has to obtain a "training certificate", upon completion of the program. This is an important document for one to keep. The certificate has to be completed by the Internal Supervisor.
- A student who will not complete practical training with no obvious reasons will score a failing grade.
- Should submit a report at the end of the training period.
- At the end of the training period, the student and the placement provider fill some forms that will be used in assessing the student.

## **IV. Training Field Contents:**

No	Field	Sub Field	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	General surgery-2	In details	8	18	All Ci, d2,d3,d5,d6
2	Gyne & Obstetric medicine	In details	8	18	All Ci, d2,d3,d5,d6
3	Operation technique-2	In details	8	18	All Ci, d2,d3,d5,d6
4	Final exam	Final exam	1	18	All
Number of Weeks /and Units Per Semester			8	144	

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
Total				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	

6	Final Exam (theoretical)	W14	60	40%	
Total			150	100%	

## IX. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

3- Electronic Materials and Web Sites etc.:

### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.</p>
6	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>

**SYLLABUS**  
**YEAR (3)**  
**SEMESTER (1)**

## I. Course Identification and General Information:

1	Course Title:	Biostatistics			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

This course is designed to acquire student with basic principles of statistics and how to deal with different data at various clinical settings and researches

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

U. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Identify Types of variables, classification of data, statistical test and their applications to health		
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a2	Recognize types of hospital records, nonparametric tests and methods of data presentation		
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**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Differentiate between types of hospital records <b>and</b> alternative and null hypotheses		
b2	Analysis the data and tabulation and interpret the results		

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Apply methods of graphical presentation		
c2	Records different types of hospital data		

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Consider confidentiality during data management & work within legal aspect		
d2	Enhance lifelong, self-directed working		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Identify Types of variables, classification of data, statistical test and their applications to health	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Recognize types of hospital records, nonparametric tests and methods of data presentation	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
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b1	Differentiate between types of hospital records <b>and</b> alternative and null hypotheses	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Analysis the data and tabulation and interpret the results	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Apply methods of graphical presentation	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Records different types of hospital data	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Consider confidentiality during data management & work within legal aspect	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Enhance lifelong, self-directed working	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

**IV. Course Contents:**

**A. Theoretical Aspect:**



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction	<ul style="list-style-type: none"> <li>▪ Definition and application of biostatistics</li> <li>▪ Variables</li> <li>▪ Hypothesis</li> <li>▪ Sampling types of samples and methods.</li> </ul>	1	1	a1, b1, c1, d1
2	Data	<ul style="list-style-type: none"> <li>• Data collection</li> <li>• Classification of data</li> <li>• Methods of data presentation</li> <li>• Tabulation of data</li> <li>• Graphic presentation of data</li> <li>• Uses of frequency distribution tables.</li> </ul>	3	3	a1, b1, c1, d1
3	Statistical test and their applications to health	<ul style="list-style-type: none"> <li>• Mean, SD, mode and Median</li> <li>• Applicable examples on biostatistics</li> <li>• Measurement of correlation and calculation of correlation coefficient.</li> <li>• Research analysis.</li> <li>• Vital statistics.</li> </ul>	3	3	a1, b1, c1, d1
4		Midterm exam	1	1	a1, b1, c1, d1
5	Records	<ul style="list-style-type: none"> <li>• Types of hospital records.</li> <li>• The importance of statistical ratio.</li> <li>• Statistical data analysis to obtain percentage, rate, test and graphic presentation.</li> </ul>	2	2	a2, b2, c2, d2
6	Nonparametric tests	<ul style="list-style-type: none"> <li>• Association and Causation</li> <li>• Correlation and regression</li> <li>• Analysis of Variance</li> <li>• Multivariate analysis</li> </ul>	4	4	a2, b2, c2, d2
7		Final exam	1	1	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

## V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation

- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

## VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: Parametric tests	W5	5	a1, c1
2	Assignment 2: Nonparametric tests	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) ( maximum two ): مثال example

**2- Essential References:****3- Electronic Materials and Web Sites etc.:****Websites:**

▪

**X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)**

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Research Methodology			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

This course is necessary for nurses to be familiar with research principles, needed to conduct research, collect research data, and interpret published studies, because research is essential to improving patient care. This course includes identifying specific problem to be investigated, initiating research, research ethics, writing the literature review, study design, methodology, sampling instruments, research statistics, data management, manuscript preparation, manuscript submission, and research presentation.

## III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

## Referenced PILOs

(مخرجات تعلم البرنامج)

V. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Identify research problem, question, literature review, study design for the research to be investigated		
a2	Recognize the research methodology, data collection instruments, research statistics, data management, manuscript preparation and research presentation		

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Compare quantitative and qualitative research approaches, observational and experimental studies, probability and nonprobability sampling.		
b2	Use critical thinking to examine literature review and research outcomes relevant to emergency practices.		

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Design an appropriate research question, study aim, study hypothesis, research types and study design, sampling methodology and data collection instruments		
c2	Formulate research projects and manuscript in a structured and predetermined and fascinating style.		

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Demonstrate competent communication, presentation skills, group work skills and understanding for their future role in utilizing research findings.		
d2	Sought ethical committee authorization prior to study commencement		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Identify research problem, question, literature review, study design for the research to be investigated	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Recognize the research methodology, data collection instruments, research statistics, data	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> </ul>

management, manuscript preparation and research presentation	<ul style="list-style-type: none"> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
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**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Compare quantitative and qualitative research approaches, observational and experimental studies, probability and nonprobability sampling.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Use critical thinking to examine literature review and research outcomes relevant to emergency practices.	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Design an appropriate research question, study aim, study hypothesis, research types and study design, sampling methodology and data collection instruments	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Formulate research projects and manuscript in a structured and predetermined and fascinating style.	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Demonstrate competent communication, presentation skills, group work skills and understanding for their future role in utilizing research findings.	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

d2	Sought ethical committee authorization prior to study commencement	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
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## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Identify research problem, funding, and research team	<ul style="list-style-type: none"> <li>▪ <b>Identify specific problem, procedure, or question to be investigated</b> <ul style="list-style-type: none"> <li>○ Introduction</li> <li>○ Justification</li> </ul> </li> <li>▪ <b>Funding</b></li> <li>▪ <b>Initiating the research</b> <ul style="list-style-type: none"> <li>○ Purpose of the study <i>protocol</i></li> <li>○ Protocol structure</li> <li>○ Prepare a Question</li> <li>○ Study hypothesis</li> <li>○ Study aims</li> </ul> </li> <li>▪ <b>Assembling the research team</b> <ul style="list-style-type: none"> <li>✓ Introduction</li> <li>✓ Methods</li> </ul> </li> <li>▪ <b>Research ethics</b> <ul style="list-style-type: none"> <li>○ Scientific value</li> <li>○ Benefits forgone</li> <li>○ Informed consent</li> </ul> </li> </ul>	2	4	a1, b1, c1, d1
2	Selection of types of research	<ul style="list-style-type: none"> <li>▪ <b>Selection of types of research</b> <ul style="list-style-type: none"> <li>○ Qualitative</li> <li>○ Quantitative <ul style="list-style-type: none"> <li>✓ Experimental research</li> <li>✓ Nonexperimental research</li> <li>✓ Survey research</li> </ul> </li> <li>○ Retrospective research</li> </ul> </li> <li>▪ longitudinal design</li> </ul>	1	2	a1, b1, c1, d1
3	The literature review	<ul style="list-style-type: none"> <li>▪ <b>The literature review</b> <ul style="list-style-type: none"> <li>○ Purposes of the Literature Review</li> <li>○ Literature Sources <ul style="list-style-type: none"> <li>✓ Types of Information Sources</li> <li>✓ Primary and Secondary Source</li> <li>✓ Grey Literature</li> </ul> </li> <li>○ Search Strategies <ul style="list-style-type: none"> <li>✓ Develop a Search Strategy</li> </ul> </li> </ul> </li> </ul>	2	4	a1, b1, c1, d1

		<ul style="list-style-type: none"> <li>✓ Ask a Librarian</li> <li>✓ Finding Tools</li> <li>✓ Selected Databases</li> <li>○ Writing the Literature Review <ul style="list-style-type: none"> <li>✓ Extracting Information from Literature Sources</li> <li>✓ Critiquing the Literature Review in a Research Article</li> </ul> </li> <li>○ Components of a Literature Review</li> </ul>			
4	<b>Study design</b>	<ul style="list-style-type: none"> <li>▪ <b>Study design</b> <ul style="list-style-type: none"> <li>○ Observational studies <ul style="list-style-type: none"> <li>✓ Cross-sectional studies</li> <li>✓ Ecological studies</li> <li>✓ Cohort studies</li> <li>✓ Case-control studies</li> <li>✓ Case reports and case series</li> </ul> </li> <li>○ Experimental or interventional studies <ul style="list-style-type: none"> <li>✓ Main types of clinical trials</li> <li>✓ Key features of clinical trials</li> <li>✓ Blinding</li> </ul> </li> </ul> </li> <li>▪ <b>Questionnaire studies</b></li> <li>▪ <b>Typical errors in questionnaire design</b></li> <li>▪ <b>Case control studies</b></li> <li>▪ <b>Case reports</b></li> <li>▪ <b>Interview studies</b></li> <li>▪ <b>Focus group studies</b></li> </ul>	<b>2</b>	<b>4</b>	a1, b1, c1, d1
5		<b>Midterm exam</b>	<b>1</b>	<b>2</b>	a1, b1, c1, d1
6	<b>Methodology</b>	<ul style="list-style-type: none"> <li>▪ <b>Concepts of methodology</b> <ul style="list-style-type: none"> <li>○ Validity &amp; repeatability of study methods <ul style="list-style-type: none"> <li>✓ Response rate</li> <li>✓ Study variables</li> <li>✓ Study end points</li> </ul> </li> </ul> </li> <li>▪ <b>Sampling study subjects</b> <ul style="list-style-type: none"> <li>○ Define the Population</li> <li>○ Sampling frame</li> <li>○ Sampling methodology</li> <li>○ Stratified sampling</li> <li>○ Nonprobability sampling</li> </ul> </li> </ul>	<b>1</b>	<b>2</b>	a2, b2, c2, d2
7	<b>Data collection instruments</b>	<ul style="list-style-type: none"> <li>▪ <b>Data collection instruments</b> <ul style="list-style-type: none"> <li>○ Surveys</li> <li>○ Designing a survey</li> <li>○ Before a survey</li> <li>○ During the survey</li> <li>○ After the survey</li> </ul> </li> </ul>	<b>2</b>	<b>4</b>	a2, b2, c2, d2



		<ul style="list-style-type: none"> <li>○ Data collection performs</li> <li>▪ <b>Questionnaire</b></li> <li>▪ <b>Bias and confounding</b> <ul style="list-style-type: none"> <li>○ Study design errors</li> <li>○ Systematic error (bias)</li> <li>○ Confounding</li> <li>○ Common confounders</li> </ul> </li> <li>▪ <b>Interview studies</b></li> </ul>			
8	<b>Principles of clinical research statistics</b>	<ul style="list-style-type: none"> <li>▪ <b>Principles of clinical research statistics</b> <ul style="list-style-type: none"> <li>○ Sample size</li> <li>○ Study power</li> <li>○ Statistical versus clinical significance</li> <li>○ Gather and Analyze Data <ul style="list-style-type: none"> <li>✓ Descriptive Statistics <ul style="list-style-type: none"> <li>• Qualitative analysis</li> <li>• Quantitative analysis</li> <li>• Inferential Statistics</li> </ul> </li> </ul> </li> </ul> </li> <li>▪ <b>Databases &amp; principles of data management</b> <ul style="list-style-type: none"> <li>○ Defining data to be collected</li> <li>○ Database design</li> <li>○ Data entry</li> <li>○ Data validation</li> </ul> </li> </ul>	<b>1</b>	<b>2</b>	a2, b2, c2, d2
9	<b>Research publication</b>	<ul style="list-style-type: none"> <li>▪ <b>Introduction</b></li> <li>▪ <b>Important principles</b> <ul style="list-style-type: none"> <li>○ Duplicate publication</li> </ul> </li> <li>▪ <b>Readability</b></li> <li>▪ <b>Publication types</b></li> <li>▪ <b>Manuscript preparation</b> <ul style="list-style-type: none"> <li>○ Original research manuscripts <ul style="list-style-type: none"> <li>✓ Abstract</li> <li>✓ Introduction</li> <li>✓ Methods</li> <li>✓ Results</li> <li>✓ Discussion</li> <li>✓ Case reports</li> <li>✓ Systematic reviews &amp; meta-analyses</li> <li>✓ Letter to the editor</li> </ul> </li> </ul> </li> <li>▪ <b>Manuscript submission</b> <ul style="list-style-type: none"> <li>○ The cover letter</li> </ul> </li> <li>▪ <b>Feedback from journals</b></li> <li>▪ <b>Post-acceptance issues</b> <ul style="list-style-type: none"> <li>○ Social media</li> </ul> </li> </ul>	<b>1</b>	<b>2</b>	a2, b2, c2, d2
10	<b>Research presentation</b>	<ul style="list-style-type: none"> <li>▪ <b>Research presentation</b> <ul style="list-style-type: none"> <li>○ Data show presentation (Tables, Charts, Graph, ...)</li> </ul> </li> <li>▪ <b>Proposal Discussion</b></li> </ul>	<b>2</b>	<b>4</b>	a2, b2, c2, d2

11		<b>Final exam</b>	<b>1</b>	<b>2</b>	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

### V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	<b>Assignment 1:</b> literature review	W5	5	a1, c1
2	<b>Assignment 2:</b> report presentation	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	<b>Assignments</b>	W5,11	10	10%	a1, b1, a2, b2, c2,
2	<b>Quizzes 1 &amp; 2</b>	W3, 9	10	10%	a1, a2, b1, b2
3	<b>Mid-Term Theoretical Exam</b>	W7	20	20%	a1, b1, c1, d1
4	<b>Final Theoretical Exam</b>	W16	60	60%	a2, b2, c2, d2

<b>Total</b>	<b>100</b>	<b>100%</b>	
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## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

5.

### 2- Essential References:

2.

### 3- Electronic Materials and Web Sites etc.:

**Websites:**

▪

## X. Course Policies

تترك كما هي (2007) Based on the Uniform Students' By law

<b>1</b>	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
<b>2</b>	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
<b>3</b>	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
<b>4</b>	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
<b>5</b>	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
<b>6</b>	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>

## I. Course Identification and General Information:

1	Course Title:	ENT Operations			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	-	2
4	Study Level/ Semester at which this Course is offered:	Third Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*The aim of this course is to enable the student to recognize and cope with ENT disease, clinical features, diagnosis and surgical management and impact on the nursing care of various ENT conditions.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>W. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a1.1	Describe the functions of the ENT	A1	Describe the structure and functions of the human body.
a1.2	Identify the anatomic structures of the ENT.		
a2.1	Determine the optimal drug for ENT during surgery	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a4.1	Know the procedure of ENT surgery	A4	Know the procedures followed before, during and after each operation.
a5.1	Describe the ENT operations tools and instruments	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Discuss the care & management implication for clients in the preoperative and postoperative.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b4.1	Provide the ENT operation tools and instruments.	B4	Providing work needs in operating rooms.
b5.1	Discuss the care & management implication for clients in the preoperative and postoperative.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Prepare the operation room for ENT operation.	C1	Preparing the operating room and receiving patients undergoing surgery
c2.1	Organize the ENT equipment in operating table.	C2	Inspect and organize the equipment fitted on the operating table and give the surgeon
c3.1	Prepare ENT operation tools and instruments.	C3	Prepare tools for different stages of the process
c4.1	Provide the ENT operation equipment	C4	Provide materials and equipment for operation
c7.1	Sterile ENT operation equipment before and after operation.	C7	Keep all surgical instruments sterile, tidy and ready for use
c10.1	Assist the surgeon and handing the necessary ENT tools and instruments.	C10	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Communicates effectively with individuals, families, and communities.	D2	Communicate with patients/client respectively regardless of their beliefs,

			cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Employ effective communication with surgeons and OT team.	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time in OT.	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>a1.1</b>	Describe the functions of the ENT	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a1.2</b>	Identify the anatomic structures of the ENT.		
<b>a2.1</b>	Determine the optimal drug for ENT during surgery		
<b>a4.1</b>	Know the procedure of ENT surgery		
<b>a5.1</b>	Describe the ENT operations tools and instruments		
<b>a6.1</b>	Discuss the care & management implication for clients in the preoperative and postoperative		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b4.1</b>	Provide the ENT operation tools and instruments.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b5.1</b>	Discuss the care & management implication for clients in the preoperative and postoperative.		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>c1.1</b>	Prepare the operation room for ENT operation.	Lecture-discussion Group discussions Practical	Assess performance with scale Assess with checklist Evaluation of presentation
<b>c2.1</b>	Organize the ENT equipment in operating table.		
<b>c3.1</b>	Prepare ENT operation tools and instruments.		

<b>c4.1</b>	Provide the ENT operation equipment	Record book	Practical record. Practical exam
<b>c7.1</b>	Sterile ENT operation equipment before and after operation.		
<b>c10.1</b>	Assist the surgeon and handing the necessary ENT tools and instruments.		
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d2.1	Communicates effectively with individuals, families, and communities.	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Employ effective communication with surgeons and OT team.		
d5.1	Mange the time in OT.		
d6.1	Keep daily register records of operating theatre department		

## IV. Course Contents:

### A. Theoretical Aspect:

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b><u>Ear problems</u></b>	<ul style="list-style-type: none"> <li>- Examination of the ear</li> <li>- Congenital conditions</li> <li>- Deafness</li> <li>- Audiometary test</li> <li>- Infection conditions:</li> <li>- Otitis externa</li> <li>- Otitis media</li> <li>- Mastoiditis -Mastoidectomy</li> </ul>	4	4	a1.1, a1.2, a2.1, a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c7.1, c10.1, d2.1, d3.1, d5.1, d6.1
2	<b><u>Nose problems</u></b>	<ul style="list-style-type: none"> <li>- Congenital condition</li> <li>- Injury to nose</li> <li>- Epistaxis</li> <li>- Furuncles</li> <li>- Acute Rhinitis and cronic</li> <li>- Acute Antral puncture &amp; washout</li> <li>- Acute submucous resection of nose septum,</li> </ul>	5	5	a1.1, a1.2, a2.1, a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c7.1, c10.1, d2.1, d3.1, d5.1, d6.1
3	<b>Mid Term exam</b>	<b>Mid Term exam</b>	1	2	All
4	<b><u>Throat problems</u></b>	<ul style="list-style-type: none"> <li>- Examination of throat , tonsil. Pharynx and larynx</li> <li>- Laryngoscopy</li> <li>- Tonsillitis – tonsillectomy</li> <li>- Adenoidectomy</li> <li>- Inflammatory conditions</li> </ul>	5	5	a1.1, a1.2, a2.1, a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c7.1, c10.1, d2.1, d3.1, d5.1, d6.1

		<ul style="list-style-type: none"> <li>▪ Acute Pharyngitis</li> <li>▪ Acute Laryngitis</li> <li>▪ Acute Laryngo-tracheo-bronchitis</li> </ul> <p style="text-align: center;">- Tracheostomy</p>			
5	<b>Final Exam</b>	<b>Final Exam</b>	<b>1</b>	<b>2</b>	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>18</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CIOs)
1	<b>ENT operation (Types, classifications, tools, instruments, procedures, drugs, operating room)</b>	15	30	a1.1, a1.2, a2.1, a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c7.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks</b>		<b>15</b>	<b>30</b>	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CIOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CIOs (symbols)
Not Applicable				
<b>Total</b>				



<b>VIII. Schedule of Assessment Tasks for Students During the Semester:</b>					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	10	10%	
2	Quizzes		10	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	W15	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	70	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

### **IX. Learning Resources:**

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

#### **1- Required Textbook(s) ( maximum two ) : مثال example**

- 1.D.F.Ellison Nash, The principles and practice of Surgery for Nurses and Allied professions Fifth Edition Edward Arnold
2. David A. Macfarlane, Lewisp Thomas Text book of Surgery, Forth Edition Churchill Livingstone

#### **2- Essential References:**

#### **3- Electronic Materials and Web Sites etc.:**

##### **Websites:**

1. <http://www.moHP.gov.eg>
2. <http://www.bbc.co.uk/>
3. [www.WHO.com](http://www.WHO.com)
4. [www.bupmed.com](http://www.bupmed.com)
5. [www.edul.elu.eg](http://www.edul.elu.eg)

### **X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)**

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b>

	No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Operations Technique-3			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	-	2
4	Study Level/ Semester at which this Course is offered:	Third Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain theoretical and practical knowledge about thoracic surgery and its equipment, theory and practical knowledge about cardiac surgery and its equipment, theory and practical knowledge about vascular surgery and its equipment, theory and practical knowledge about oncology surgery and its equipment, theory and practical knowledge about ophthalmic surgery and its equipment.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>X. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a3.1	Know the optimal drugs for patients of thoracic surgeries.	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a3.2	Know the optimal drugs for patients of cardiac surgeries.		
a3.3	Know the optimal drugs for patients of vascular surgeries.		
a3.4	Know the optimal drugs for patients of oncology surgeries.		
a3.5	Know the optimal drugs for patients of ophthalmic surgeries.		
a4.1	Use the procedures followed before, during and after thoracic surgeries.	A4	Know the procedures followed before, during and after each operation.
a4.2	Use the procedures followed before, during and after cardiac surgeries.		
a4.3	Use the procedures followed before, during and after vascular surgeries.		
a4.4	Use the procedures followed before, during and after oncology surgeries.		
a4.5	Use the procedures followed before, during and after ophthalmic surgeries		
a5.1	Use and maintain the equipment and surgical techniques of various surgery .	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b3.1	Prepare the operating room according to the thoracic operation.	B3	Implementation of special nursing procedures for different surgeries
b3.2	Prepare the operating room according to the cardiac operation.		
b3.3	Prepare the operating room according to the vascular operation.		
b3.4	Prepare the operating room according to the oncology operation.		
b3.5	Prepare the operating room according to the ophthalmic operation.		
b4.1	Arrange the instruments in sets of thoracic operation.	B4	Providing work needs in operating rooms.

<b>b4.2</b>	Arrange the instruments in sets of cardiac operation.		
<b>b4.3</b>	Arrange the instruments in sets of vascular operation.		
<b>b4.4</b>	Arrange the instruments in sets of oncology operation.		
<b>b4.5</b>	Arrange the instruments in sets of ophthalmic operation.		
<b>b5.1</b>	Implement Safety measures.	<b>B5</b>	Discuss preventive methods for patient safety with medical staff and staff in the operating room.

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

<b>c1.1</b>	Assist in positioning patients on the operation table.	<b>C1</b>	Preparing the operating room and receiving patients undergoing surgery
<b>c2.1</b>	Inspect and prepare the suitable surgical needles	<b>C2</b>	Inspect and organize the equipment fitted on the operating table and give the surgeon
<b>c3.1</b>	Implement medicolegal aspects.	<b>C3</b>	Prepare tools for different stages of the process
<b>c4.1</b>	Handling of ligature materials for thoracic operation	<b>C4</b>	Provide materials and equipment for operation
<b>c4.2</b>	Handling of ligature materials for cardiac operation		
<b>c4.3</b>	Handling of ligature materials for vascular operation		
<b>c4.4</b>	Handling of ligature materials for oncology operation		
<b>c4.5</b>	Handling of ligature materials for ophthalmic operation		
<b>c5.1</b>	Clean thoracic surgery sets	<b>C5</b>	Cleaning and disinfection of surgical instruments and instruments after surgery
<b>c5.2</b>	Clean cardiac surgery sets		
<b>c5.3</b>	Clean vascular surgery sets		
<b>c5.4</b>	Clean oncology surgery sets		
<b>c5.5</b>	Clean ophthalmic surgery sets		
<b>c6.1</b>	Prepare and handling the thoracic surgery sets	<b>C6</b>	Prepare surgical devices and instruments for sterilization in each protocol.
<b>c6.2</b>	Prepare and handling the cardiac surgery sets		
<b>c6.3</b>	Prepare and handling the vascular surgery sets		
<b>c6.4</b>	Prepare and handling the oncology surgery sets		
<b>c6.5</b>	Prepare and handling the ophthalmic surgery sets		
<b>c7.1</b>	Sterile neuron and cardiac surgery sets	<b>C7</b>	Keep all surgical instruments sterile, tidy and ready for use

<b>c8.1</b>	Prepare the patients of neuron and cardiac surgery sets	<b>C8</b>	Prepare the patient before and after the surgery by washing and disinfecting the surgical area.
<b>c10.1</b>	Assist the surgeon during minor and major operation.	<b>C10</b>	Assist the surgeon during surgery.
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
<b>d2.1</b>	Good communication with patients	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Deal effectively with the surgical	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time according to handling the sets	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department.	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a3.1	Know the optimal drugs for patients of thoracic surgeries.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
a3.2	Know the optimal drugs for patients of cardiac surgeries.		
a3.3	Know the optimal drugs for patients of vascular surgeries.		
a3.4	Know the optimal drugs for patients of oncology surgeries.		
a3.5	Know the optimal drugs for patients of ophthalmic surgeries.		
a4.1	Use the procedures followed before, during and after thoracic surgeries.		
a4.2	Use the procedures followed before, during and after cardiac surgeries.		

a4.3	Use the procedures followed before, during and after vascular surgeries.		
a4.4	Use the procedures followed before, during and after oncology surgeries.		
a4.5	Use the procedures followed before, during and after ophthalmic surgeries		
a5.1	Use and maintain the equipment and surgical techniques of various surgery .		
a6.1	Understand the principles of sterilization, disinfections and aseptic technique.		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b3.1	Prepare the operating room according to the thoracic operation.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
b3.2	Prepare the operating room according to the cardiac operation.		
b3.3	Prepare the operating room according to the vascular operation.		
b3.4	Prepare the operating room according to the oncology operation.		
b3.5	Prepare the operating room according to the ophthalmic operation.		
b4.1	Arrange the instruments in sets of thoracic operation.		
b4.2	Arrange the instruments in sets of cardiac operation.		
b4.3	Arrange the instruments in sets of vascular operation.		
b4.4	Arrange the instruments in sets of oncology operation.		
b4.5	Arrange the instruments in sets of ophthalmic operation.		
b5.1	Implement Safety measures.		
b3.1	Prepare the operating room according to the thoracic operation.		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1.1	Assist in positioning patients on the operation table.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
c2.1	Inspect and prepare the suitable surgical needles		
c3.1	Implement medicolegal aspects.		
c4.1	Handling of ligature materials for thoracic operation		
c4.2	Handling of ligature materials for cardiac operation		
c4.3	Handling of ligature materials for vascular operation		
c4.4	Handling of ligature materials for oncology operation		
c4.5	Handling of ligature materials for ophthalmic operation		
c5.1	Clean thoracic surgery sets		
c5.2	Clean cardiac surgery sets		
c5.3	Clean vascular surgery sets		
c5.4	Clean oncology surgery sets		
c5.5	Clean ophthalmic surgery sets		
c6.1	Prepare and handling the thoracic surgery sets		
c6.2	Prepare and handling the cardiac surgery sets		
c6.3	Prepare and handling the vascular surgery sets		
c6.4	Prepare and handling the oncology surgery sets		
c6.5	Prepare and handling the ophthalmic surgery sets		
c7.1	Sterile neuron and cardiac surgery sets		



<b>c8.1</b>	Prepare the patients of neuron and cardiac surgery sets		
<b>c10.1</b>	Assist the surgeon during minor and major operation.		
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>d2.1</b>	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
<b>d3.1</b>	Deal effectively with the surgical		
<b>d5.1</b>	Mange the time according to handling the sets		
<b>d6.1</b>	Keep daily register records of operating theatre department		

<b>IV. Course Contents:</b>					
<b>A. Theoretical Aspect:</b>					
No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	The common operation of thoracic surgery	<ul style="list-style-type: none"> <li>- <b>thoracotomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Lunges hydatid operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Chest tube operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>-</li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
2	The common operation of Cardiac surgery	<ul style="list-style-type: none"> <li>- <b>C.A.B.G operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Martell valve replacement operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Aortic valve replacement operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	3	6	a3.2, a4.2, a5.1, a6.1, b3.2, b4.2, b5.1, c1.1, c2.1, c3.1, c4.2, c5.2, c6.2, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

		<ul style="list-style-type: none"> <li>- <b>T.U.B tricuspid valve repair operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>P.D.A operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>T.O.F operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>A.S.D and V.S.D operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>			
3	The common operation of vascular surgery	<ul style="list-style-type: none"> <li>- <b>Vein graft operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>A.V. shunt operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Ampullectomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Fasciotomy operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> </ul>	3	6	a3.3, a4.3, a5.1, a6.1, b3.3, b4.3, b5.1, c1.1, c2.1, c3.1, c4.3, c5.3, c6.3, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
4	Midterm Exam	<ul style="list-style-type: none"> <li>- <b>Midterm Exam</b></li> </ul>	1	2	All
5	The common operation of oncology surgery	<ul style="list-style-type: none"> <li>- <b>Lipoma resection operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Adenophora operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Axillary dissection operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Neck dissection operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>pelvic dissection operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>elastic fibroma operation and Lab</b></li> </ul>	3	6	a3.4, a4.4, a5.1, a6.1, b3.4, b4.4, b5.1, c1.1, c2.1, c3.1, c4.4, c5.4, c6.4, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1

		- (Definition, Types, Equipment, surgical Techniques)			
6	The common operation of ophthalmic surgery	<ul style="list-style-type: none"> <li>- <b>cataract glaucoma operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>D.C.R operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>Enucleation operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>- <b>syenite operation and Lab</b> (Definition, Types, Equipment, surgical Techniques)</li> <li>-</li> </ul>	3	6	a3.5, a4.5, a5.1, a6.1, b3.4, b4.5, b5.1, c1.1, c2.1, c3.1, c4.5, c5.5, c6.5, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
7	Final exam	Final exam	1	2	All
Number of Weeks /and Units Per Semester			16	32	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Use Equipment, and surgical Techniques of: <ul style="list-style-type: none"> <li>- <b>thoracotomy</b></li> <li>- <b>Lunges hydatid</b></li> <li>- <b>Chest tube</b></li> </ul>	2	4	a3.1, a4.1, a5.1, a6.1, b3.1, b4.1, b5.1, c1.1, c2.1, c3.1, c4.1, c5.1, c6.1, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
2	Use Equipment, and surgical Techniques of: <ul style="list-style-type: none"> <li>- <b>C.A.B.G</b></li> <li>- <b>Martell valve replacement</b></li> <li>- <b>Aortic valve replacement</b></li> <li>- <b>T.U.B tricuspid valve repair</b></li> <li>- <b>P.D.A</b></li> <li>- <b>T.O.F</b></li> <li>- <b>A.S.D and V.S.D</b></li> </ul>	3	6	a3.2, a4.2, a5.1, a6.1, b3.2, b4.2, b5.1, c1.1, c2.1, c3.1, c4.2, c5.2, c6.2, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
3	Use Equipment, and surgical Techniques of: <ul style="list-style-type: none"> <li>- <b>Vein graft</b></li> <li>- <b>A.V. shunt</b></li> <li>- <b>Ampullectomy</b></li> <li>- <b>Fasciotomy</b></li> </ul>	3	6	a3.3, a4.3, a5.1, a6.1, b3.3, b4.3, b5.1, c1.1, c2.1, c3.1, c4.3, c5.3, c6.3, c7.1, c8.1,

				c10.1, d2.1, d3.1, d5.1, d6.1
4	<b>Use Equipment, and surgical Techniques of:</b> <ul style="list-style-type: none"> <li>- <b>Lipoma resection</b></li> <li>- <b>Adenophora</b></li> <li>- <b>Axillary dissection</b></li> <li>- <b>Neck dissection</b></li> <li>- <b>pelvic dissection</b></li> <li>- <b>elastic fibroma</b></li> <li>-</li> </ul>	3	6	a3.4, a4.4, a5.1, a6.1, b3.4, b4.4, b5.1, c1.1, c2.1, c3.1, c4.4, c5.4, c6.4, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
5	<b>Use Equipment, and surgical Techniques of:</b> <ul style="list-style-type: none"> <li>- <b>cataract glaucoma</b></li> <li>- <b>D.C.R</b></li> <li>- <b>Enucleation</b></li> <li>- <b>syenite</b></li> </ul>	3	6	a3.5, a4.5, a5.1, a6.1, b3.4, b4.5, b5.1, c1.1, c2.1, c3.1, c4.5, c5.5, c6.5, c7.1, c8.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks /and Units Per Semester</b>		14	28	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Not Applicable				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
Not Applicable				
<b>Total</b>				

<b>VIII. Schedule of Assessment Tasks for Students During the Semester:</b>					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	60	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

### **IX. Learning Resources:**

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

#### **1- Required Textbook(s) ( maximum two ) : مثال example**

- Handbook of Surgical Technique: A True Surgeon's Guide to Navigating the Operating Room 1st Edition, by Christopher J. Hartman (Author), Louis R. Kavoussi MD MBA (Author)
- A Practical Guide to Surgical Instruments: X-Rays and Operative Interventions [Print Replica] Kindle Edition by Ajay Kumar Agrawal (Author), Neelabh Agrawal (Author), Sneha Agrawal (Author)

#### **2- Essential References:**

#### **3- Electronic Materials and Web Sites etc.:**

##### **Websites:**

- An Online Medical Dictionary

### **X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)**

<b>1</b>	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>2</b>	<b>Tardiness:</b>

	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Gyne & obstetrics operations			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	-	2
4	Study Level/ Semester at which this Course is offered:	Third Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*The aim of this course is to enable the student to recognize and cope with Gyne & obstetrics disease, clinical features, diagnosis and surgical management and impact on the nursing care of various Gyne & obstetrics conditions.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>Y. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a1.1	Describe the functions of the Gyne & obstetrics	A1	Describe the structure and functions of the human body.
a1.2	Identify the anatomic structures of the Gyne & obstetrics.		
a2.1	Determine the optimal drug for Gyne & obstetrics during surgery	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a4.1	Know the procedure of Gyne & obstetrics surgery	A4	Know the procedures followed before, during and after each operation.
a5.1	Describe the Gyne & obstetrics operations tools and instruments	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Discuss the care & management implication for clients in the preoperative and postoperative.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b4.1	Provide the Gyne & obstetrics operation tools and instruments.	B4	Providing work needs in operating rooms.
b5.1	Discuss the care & management implication for clients in the preoperative and postoperative.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Prepare the operation room for Gyne & obstetrics operation.	C1	Preparing the operating room and receiving patients undergoing surgery
c2.1	Organize the Gyne & obstetrics equipment in operating table.	C2	Inspect and organize the equipment fitted on the operating table and give the surgeon
c3.1	Prepare Gyne & obstetrics operation tools and instruments.	C3	Prepare tools for different stages of the process
c3.2	Prepare the position of patient in OT table.		
c4.1	Provide the Gyne & obstetrics operation equipment	C4	Provide materials and equipment for operation
c7.1	Sterile Gyne & obstetrics operation equipment before and after operation.	C7	Keep all surgical instruments sterile, tidy and ready for use
c10.1	Assist the surgeon and handing the necessary Gyne & obstetrics tools and instruments.	C10	Assist the surgeon during surgery.



**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

<b>d2.1</b>	Communicates effectively with individuals, families, and communities.	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Employ effective communication with surgeons and OT team.	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time in OT.	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
<b>a1.1</b>	Describe the functions of the Gyne & obstetrics	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a1.2</b>	Identify the anatomic structures of the Gyne & obstetrics.		
<b>a2.1</b>	Determine the optimal drug for Gyne & obstetrics during surgery		
<b>a4.1</b>	Know the procedure of Gyne & obstetrics surgery		
<b>a5.1</b>	Describe the Gyne & obstetrics operations tools and instruments		
<b>a6.1</b>	Discuss the care & management implication for clients in the preoperative and postoperative		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
<b>b4.1</b>	Provide the Gyne & obstetrics operation tools and instruments.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b5.1</b>	Discuss the care & management implication for clients in the preoperative and postoperative.		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
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<b>c1.1</b>	Prepare the operation room for Gyne & obstetrics operation.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c2.1</b>	Organize the Gyne & obstetrics equipment in operating table.		
<b>c3.1</b>	Prepare Gyne & obstetrics operation tools and instruments.		
<b>c3.2</b>	Prepare the position of patient in OT table.		
<b>c4.1</b>	Provide the Gyne & obstetrics operation equipment		
<b>c7.1</b>	Sterile Gyne & obstetrics operation equipment before and after operation.		
<b>c10.1</b>	Assist the surgeon and handing the necessary Gyne & obstetrics tools and instruments.		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d2.1	Communicates effectively with individuals, families, and communities.	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Employ effective communication with surgeons and OT team.		
d5.1	Mange the time in OT.		
d6.1	Keep daily register records of operating theatre department		

## IV. Course Contents:

### A. Theoretical Aspect:

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Anatomy of Genitourinary &amp; obstetrics system</b>	Review of Anatomy of Genitourinary system	1	2	a1.1, a1.2,
2	<b>Care of the Urology Patient</b>	Care of the Urology Patient	2	4	a1.1, a1.2, a2.1, b5.1, d2.1
3	<b>Positioning the patient</b>	□ Positioning the patient in OT for Genitourinary & obstetrics	2	4	a3.2

4	<b>Prepping and Draping the Patient</b>	<input type="checkbox"/> Prepping and Draping the Patient from/to OT.	1	2	a4.1, a5.1, a6.1, b5.1, c1.1, c2.1, c3.1
5	<b>Instruments and sterilization</b>	<input type="checkbox"/> Instruments identification their use, care and sterilization before and after Genitourinary & obstetrics operations	1	2	a4.1, a5.1, b4.1, c1.1, c2.1, c3.1, c3.2, c4.1, c7.1
6	<b>Mid Term exam</b>	<b>Mid Term exam</b>	1	2	All
7	<b>Equipment's</b>	<input type="checkbox"/> Equipment's and Supplies in OT for Genitourinary & obstetrics operation	2	4	a4.1, a5.1, b4.1, c1.1, c2.1, c3.1, c3.2, c4.1, c7.1
8	<b>diagnostic tests</b>	<input type="checkbox"/> Types of diagnostic tests and laboratory tests used preoperatively in the urologic patient	2	4	a2.1
9	<b>procedures</b>	<input type="checkbox"/> Commonly performed procedures (definitions, Goal of the procedure, Discussion including instrument, equipment and supplies needed and procedure steps)	2	4	a4.1, c1.1, c2.1, c3.1, c3.2, c4.1, c10.1
10	<b>Management</b>	<input type="checkbox"/> Management of the theatre work	1	2	a6.1, b5.1, c10.1, d2.1, d3.1, d5.1, d6.1
11	<b>Final Exam</b>	<b>Final Exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Genitourinary &amp; obstetrics operation (Types, classifications, tools, instruments, procedures, drugs, operating room)</b>	15	30	a1.1, a1.2, a2.1, a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c2.1, c3.1, c3.2, c4.1, c7.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks</b>		<b>15</b>	<b>30</b>	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
<b>Not Applicable</b>				

## V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

## VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
Total				

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	10	10%	
2	Quizzes		10	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	W15	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	70	40%	
Total			150	100%	

## IX. Learning Resources:

- Written in the following order: Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

- Whitefield CR and Dewhurt S (2005). Textbook of obstetric and gynecology, 6th ed

### 2- Essential References:

1.Gabbe, S, Niebyl, J and Simpson J(2004). Obstetrics: Normal and Problem Pregnancies, 4th ed. Churchill Livingstone.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

1. www.PubMed.com
2. www.women health.com
3. www.google.com
4. www.who.org

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Field Training-3			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		6	-	-	18
4	Study Level/ Semester at which this Course is offered:	Third Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain practical knowledge in hospitals and health centers. Student will train about the operation theatre 3 , operation technique 3, Gyne & obstetrics operations, ENT operations.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>Z. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
	Must gain All Ci in program		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Good communication with patients	D2	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
d3.1	Deal effectively with the surgical	D3	Work effectively with the team in different situations
d5.1	Mange the time according to handling the sets	D5	Effectively manage time.
d6.1	Keep daily register records of operating theatre department.	D6	Skillfully write reports.

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies

<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
Must gain All Ci in program			
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

## 5. Description of Field Training Tasks:

### 1 – At what stage or stages during the program does the field Training occur?

- The students are required to join government or private hospitals or Health centers placements during the semester study.
- The students must execute a given training program within 8 weeks in an hospitals or Health center placement.
- Registration: fill the registration form and complete the registration procedures.
- Supervision: During the practical training, the student will be assigned to two supervisors (department member and training placement); in order to keep track of the student's performance and to supervise the student's work.
- Weekly Report : Students should document their activities every week, the pending tasks, and task plan for the next week.
- Progress Reports: Description of job assignments and activates.
- Final report: Consolidation of notes, memos, previous reports, collected data on training assignments into one finished and final document.
- Presentation: Presenting the report to a committee or faculty/department members and answering related questions about other details
- Evaluation: The training is evaluated by the training members and supervisors at the hospitals/colleges in secrecy method and faculty/department.

### 4 – Procedures of Training:

- The Field training is a 3-credit-hour course and must be taken during the semester by those students The Field training period is 8 weeks long during the semester time of second academic year and third academic year. Student must be oriented in one of hospitals, and well supervised in order to accomplish correctly this training. The training can be performed at any private or governmental hospitals/ centers.
- The students should fulfill the department requirements.



- After finishing the training period, they are required to submit a final report.

### **3- Students Tasks:**

- Students register and should fulfill the department requirements a field training.
- Abide by the rules and regulations of the work in the place that trains the student
- Completion of the training period (8 weeks) in the place of training that is selected and approved by the faculty or department.
- Send the contact's form at the beginning of the training period contains the date of commencement of the training, the name, address of training place and the name of the supervisor, to the faculty/department before the end of the second week of the training period.
- Confirmation on the person who is responsible of training to send student's evaluation reports that are filled during the training period to the faculty/department after the end of the training stage directly.
- Provide all necessary information and requirements to write the final report of the field training by the supervisor.
- Report to the place of work; perform duties as agreed with, and or assigned by supervisor.
- Complete a daily attendance log sheet.
- Write a final report for submission to supervisors and to faculty/department members.

### **4- Students Assignments or Reports (if any).**

<b>Title or description these assignments or reports</b>	<b>When are these assignments or reports required?</b>
7- Weekly Report	Every Week
8- Progress report	Week 5
9- Final Report	After returning from the training

### **5- Students Follow-up:**

- Regular visit students at the place of work,
- Check the student's attendance logbook,
- Check the schedule of duties which are assigned to the student,
- Weekly follow ups with the teams by faculty/department supervisors on progress & communication skills
- Evaluate the students' performance and report the grades accordingly.

### **6- Responsibilities of Supervisory Staff in the Field Training:**

- Guiding the students to subsequently follow tasks as per their field training program, translating tasks into training activities in the field.
- Check the day to day activities of the student including the filling in of the daily roster and duties performed,
- Provide the faculty/department with the report demonstrates the level of performance for each student, and sends this report at the end of the training period,
- Evaluate the student using the evaluation criteria provided faculty/department in secrecy method,
- Allow the officials or persons authorized to visit the student when needed during the training period.

### **7- Responsibilities of Supervisory from the Field/ Institution:**

- Provide the student with the appropriate function, and prepare a work plan together with the student,
- Physically visit students at the place of work,
- Check the schedule of duties which are assigned to the student,
- Discuss performance and conduct of the student with the internal supervisor,
- Discuss progress and problems with the student, and assist to solve student's problems,
- Evaluate the students' performance and report the grades accordingly in secrecy method,
- Grade the student's field report and submit the grade to the supervisor for further transmission to relevant departments in the faculty/department.

## **8- Describe the procedures to be used for students guidance and support.**

The student who is candidate for Field training must:

- Should meet the Field training coordinator within the student's department to fill the registration form. The program coordinator sends registration forms to the faculty to complete the registration procedures,
- Spread an instructions and orientation a student according to his interest.
- Complete all procedures and academic/department requirements associated with students training and complete the following:
  - o Receipt of the formal letter from the faculty to the training institution /company, it includes student definition, specialization and as well as evaluation forms that will be needed during the training period.
  - o Receives a file contains important information, guidelines and forms that relate to Field training processes.
  - o Sign a personal pledge to abide by the Field training terms and identify his full address during the training period.
- Communicate with program coordinator/supervisor in order to know the other requirements of the academic department.
- Get an official letter from the Faculty requesting a placement, and the Faculty provides a standard document that the placement provider could use to confirm that appropriate opportunities would be available to the student.
- Work under supervision of the internal supervisor (supervisor from the placement provider). There is an academic supervisor for any trainee from the department in addition to the Internal Supervisor (supervisor from the placement provider).
- Has to observe confidentiality.
- Has to be punctual at work, and has to portray a high level of integrity and respect to others
- Has to obtain a "training certificate", upon completion of the program. This is an important document for one to keep. The certificate has to be completed by the Internal Supervisor.
- A student who will not complete practical training with no obvious reasons will score a failing grade.
- Should submit a report at the end of the training period.
- At the end of the training period, the student and the placement provider fill some forms that will be used in assessing the student.

## **IV. Training Field Contents:**

No	Field	Sub Field	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	ENT operations	In details	8	18	All Ci, d2,d3,d5,d6
2	Gyne & Obstetric operations	In details	8	18	All Ci, d2,d3,d5,d6
3	Operation technique-3	In details	8	18	All Ci, d2,d3,d5,d6
4	Final exam	Final exam	1	6	All
Number of Weeks /and Units Per Semester			8	144	

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
Total				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	

6	Final Exam (theoretical)	W14	60	40%	
Total			150	100%	

## IX. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

3- Electronic Materials and Web Sites etc.:

### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p><b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p><b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.</p>
6	<p><b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>

**SYLLABUS**  
**YEAR (3)**  
**SEMESTER (2)**

## I. Course Identification and General Information:

1	Course Title:	Professional Ethics			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

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### III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

### Referenced PILOs

(مخرجات تعلم البرنامج)

AA. **Knowledge and Understanding:** Upon successful completion of the course, students will be able to:

a1	Define ethics, bioethics, moral, morality, moral dilemma, professional values and models of relationship		
a2	Describe the concepts, principles and theories of ethics and their relationship to clinical practice		

**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Compare between Value, Beliefs an Attitude		
b2	Differentiate between ethics, morality, Bioethics, medical ethics, health care ethics, clinical ethics & Law		

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Use appropriate interpersonal skills when handling ethics		
c2	Apply Nurse-patient relationship in professional manner		

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Conceptualize ethics, morality, Bioethics, medical ethics, health care ethics, clinical ethics& Law		
d2	Identify ethics of nursing profession, the human rights and legal issues related to Yemen community		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Define ethics, bioethics, moral, morality, moral dilemma, professional values and models of relationship	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Describe the concepts, principles and theories of ethics and their relationship to clinical practice	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
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b1	Compare between Value, Beliefs and Attitude	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Differentiate between ethics, morality, Bioethics, medical ethics, health care ethics, clinical ethics & Law	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Use appropriate interpersonal skills when handling ethics	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Apply Nurse-patient relationship in professional manner	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Conceptualize ethics, morality, Bioethics, medical ethics, health care ethics, clinical ethics & Law	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Identify ethics of nursing profession, the human rights and legal issues related to Yemen community	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>



## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction	<ul style="list-style-type: none"> <li>▪ The practice of nursing               <ul style="list-style-type: none"> <li>- History of nursing occupation</li> <li>- Characteristics of nursing occupation</li> <li>- Ethics of nursing occupation</li> <li>- Duties and responsibilities of nursing</li> <li>- Laws of practicing nursing occupation</li> </ul> </li> <li>▪ Main Definitions:               <ul style="list-style-type: none"> <li>- Ethics, Bioethics, Moral, Morality, and Moral dilemma</li> </ul> </li> </ul>	2	2	a1, b1, d1
2	The caring relationship.	<ul style="list-style-type: none"> <li>▪ Models of relationship</li> <li>▪ Nurse-patient relationship</li> <li>▪ Doctor-patient relationship</li> </ul>	1	1	a1, b1, c1, d1
3	Values and value-statement	<ul style="list-style-type: none"> <li>▪ Professional values:               <ul style="list-style-type: none"> <li>- Value, Beliefs an Attitude</li> </ul> </li> <li>▪ Professional Values in community health</li> </ul>	1	1	a1, b1, d1
4	Theories and principles of ethics	<ul style="list-style-type: none"> <li>▪ Theories:               <ul style="list-style-type: none"> <li>- Utilitarian.</li> <li>- Deontologic.</li> </ul> </li> <li>▪ Principles:               <ul style="list-style-type: none"> <li>- Autonomy.</li> <li>- Beneficence.</li> <li>- Confidentiality.</li> <li>- Fidelity.</li> <li>- Justice.</li> <li>- Non maleficence.</li> <li>- Paternalism.</li> <li>- Veracity.</li> </ul> </li> </ul>	1	1	a1, b1, d1
5	Patient Rights	<ul style="list-style-type: none"> <li>▪ Human rights</li> <li>▪ Patient rights</li> <li>▪ Childbearing Women</li> <li>▪ Reproductive Rights</li> </ul>	1	1	a1, b1, d1
6		Midterm exam	1	1	a1, b1, c1, d1

7	Types of ethical problems	<ul style="list-style-type: none"> <li>▪ Confidentiality.</li> <li>▪ Trust issues.</li> <li>▪ Refusing care</li> <li>▪ End of life issues.</li> <li>▪ Advance Directives</li> <li>▪ Informed Consent</li> </ul>	2	2	a2, b2, d2
8	Ethical and legal Issues	<ul style="list-style-type: none"> <li>▪ Legal aspects of maternity and perinatal care</li> <li>▪ Ethical and legal considerations prior to conception <ul style="list-style-type: none"> <li>- Artificial Insemination</li> <li>- In Vitro fertilization and embryo transfer</li> <li>- Surrogate Mothers</li> <li>- Amniocentesis (Screening and the perfect baby)</li> </ul> </li> </ul>	2	2	a2, b2, d2
9	Ethical and legal considerations	<ul style="list-style-type: none"> <li>▪ Ethical and legal considerations in abortion</li> <li>▪ Ethical and legal considerations for the fetus and sick neonate <ul style="list-style-type: none"> <li>- The Fetus</li> <li>- Fetal Research</li> <li>- Fetal Therapy</li> </ul> </li> <li>▪ The Neonate and effects of invasive procedures</li> <li>▪ Ethical issues in research</li> <li>▪ Ethical issues between nurses and physicians:</li> <li>▪ Disagreements about the proposed medical regimen.</li> <li>▪ Unprofessional, incompetent, unethical or illegal physician practice.</li> </ul>	3	3	a2, b2, c2, d2
10		Final exam	1	1	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

## V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving

- Case study analysis

## VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: Ethical and moral dilemma	W5	5	a1, c1
2	Assignment 2: Ethical issues in research	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

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## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Communication Skill			
2	Course Code & Number:				
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:				
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:				
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:				

## II. Course Description:

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
BB. Knowledge and Understanding: Upon successful completion of the course, students will be able to:			
a1	Identify process, levels, barriers and strategies of communication and techniques of effective communication		

a2	Recognize the characteristics of verbal and nonverbal communication, levels of communication, barriers to effective communication and communication blokes		
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**B. Intellectual Skills:** Upon successful completion of the course, students will be able to:

b1	Differentiate between therapeutic and non-therapeutic communication		
b2	Integrate ethical principles and concepts with nursing practice as a foundation for decision-making		

**C. Professional and Practical Skills:** Upon successful completion of the course, students will be able to:

c1	Applies techniques of effective communication		
c2	Communicate with clients with impaired hearing, speech, or cognition		

**D. Transferable Skills:** Upon successful completion of the course, students will be able to:

d1	Establish effective inter-personal relations with patients, families & co-workers		
d2	Describe the elements of collaborative professional communication		

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
a1	Identify process, levels, barriers and strategies of communication and techniques of effective communication	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>
a2	Recognize the characteristics of verbal and nonverbal communication, levels of communication, barriers to effective communication and communication blokes	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Seminars and student presentations</li> <li>▪ Brain storming, role-play and simulation</li> <li>▪ Small group for discussing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> <li>▪ Presentations</li> </ul>

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
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b1	Differentiate between therapeutic and non-therapeutic communication	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
b2	Integrate ethical principles and concepts with nursing practice as a foundation for decision-making	<ul style="list-style-type: none"> <li>▪ Interactive lecture</li> <li>▪ Brain storming</li> <li>▪ Role-play &amp; simulation</li> <li>▪ Small group discussions</li> <li>▪ Seminars and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Applies techniques of effective communication	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>
c2	Communicate with clients with impaired hearing, speech, or cognition	<ul style="list-style-type: none"> <li>▪ Active learning,</li> <li>▪ Small group learning.</li> <li>▪ Learning tasks and activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignments</li> <li>▪ Quizzes</li> <li>▪ Mid-term Exam</li> <li>▪ Final exam</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Establish effective inter-personal relations with patients, families & co-workers	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>
d2	Describe the elements of collaborative professional communication	<ul style="list-style-type: none"> <li>▪ Classroom discussions,</li> <li>▪ Problems solving</li> <li>▪ Case study analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentations</li> <li>▪ Case Studies</li> <li>▪ Learning activities</li> </ul>

**IV. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Review of Communication Process	<ul style="list-style-type: none"> <li>▪ Definition;</li> <li>▪ Elements of communication</li> <li>▪ Factors that influence the communication process</li> <li>▪ Barriers of communication</li> </ul>	1	2	a1, b1, d1
2	Levels of communication.	<ul style="list-style-type: none"> <li>▪ Basic levels of communication. <ul style="list-style-type: none"> <li>✓ Interpersonal</li> <li>✓ Intrapersonal Communication</li> <li>✓ Group Communication</li> </ul> </li> <li>▪ Space in communication <ul style="list-style-type: none"> <li>✓ Intimate space</li> <li>✓ Personal space</li> <li>✓ Public space</li> </ul> </li> </ul>	2	2	a1, b1, c1, d1
3	Types of communication	<ul style="list-style-type: none"> <li>▪ Types of communication</li> <li>▪ Verbal communication</li> <li>▪ Non-verbal communication</li> <li>▪ Characteristics</li> <li>▪ Listening &amp; hearing</li> </ul>	2	4	a1, b1, c1, d1
4	Therapeutic and non therapeutic communication.	<ul style="list-style-type: none"> <li>▪ Therapeutic communication <ul style="list-style-type: none"> <li>✓ Elements</li> <li>✓ Principles of therapeutic interaction</li> <li>✓ Barriers</li> <li>✓ Traits of Therapeutic Communication</li> </ul> </li> <li>▪ Non-therapeutic communication</li> </ul>	2	4	a1, b1, c1, d1
5		Midterm exam	1	2	a1, b1, c1, d1
6	Communication blokes	<ul style="list-style-type: none"> <li>▪ Communication blokes</li> </ul>	1	2	a2, b2, c2, d2
7	Effective Communication	<ul style="list-style-type: none"> <li>▪ Introduction</li> <li>▪ Importance</li> <li>▪ Principles</li> <li>▪ Basic abilities for effective communication</li> <li>▪ Barriers to effective communication</li> </ul>	2	4	a2, b2, c2, d2
8	Collaborative professional communication	Collaborative professional communication	1	2	a2, b2, c2, d2



9	Communicate with clients with impaired hearing, speech, or cognition.	Communicate with clients with: <ul style="list-style-type: none"> <li>Impaired hearing,</li> <li>Impaired speech,</li> <li>Impaired cognition.</li> </ul>	2	4	a2, b2, c2, d2
10		Final exam	1	2	a2, b2, c2, d2
<b>Number of Weeks /and Units Per Semester</b>					

<b>V. Teaching Strategies of the Course:</b>
<ul style="list-style-type: none"> <li>Interactive lecture</li> <li>Seminars and student presentations</li> <li>Brain storming</li> <li>Role-play and simulation</li> <li>Small group discussion</li> <li>Learning tasks and activities</li> <li>Problems solving</li> <li>Case study analysis</li> </ul>

<b>VI. Assessment Methods of the Course:</b>
<ul style="list-style-type: none"> <li>Assignments</li> <li>Quizzes</li> <li>Mid-term exam</li> <li>Final term exam</li> </ul>

<b>VII. Assignments:</b>				
No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	<b>Assignment 1:</b> Therapeutic and non-therapeutic communication	W5	5	a1, c1
2	<b>Assignment 2:</b> communication blocks	W11	5	a2, b2, c2
<b>Total</b>			<b>10</b>	

<b>VIII. Schedule of Assessment Tasks for Students During the Semester:</b>					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes

1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

3- Electronic Materials and Web Sites etc.:

Websites:

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## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	ophthalmic operations			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	-	2
4	Study Level/ Semester at which this Course is offered:	Third Level/ Second semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*The aim of this course is to enable the student to recognize and cope with ophthalmic disease, clinical features, diagnosis and surgical management and impact on the nursing care of various ophthalmic conditions.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>CC. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a1.1	Describe the functions of the ophthalmic	A1	Describe the structure and functions of the human body.
a1.2	Identify the anatomic structures of the ophthalmic.		
a2.1	Determine the optimal drug for ophthalmic during surgery	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or conditions.
a4.1	Know the procedure of ophthalmic surgery	A4	Know the procedures followed before, during and after each operation.
a5.1	Describe the ophthalmic operations tools and instruments	A5	Describe the tools and devices needed for each process and how to maintain, arrange and sterilize them.
a6.1	Discuss the care & management implication for clients in the preoperative and postoperative.	A6	Understand safety and security methods in the operating room and prevent infection.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b4.1	Provide the ophthalmic operation tools and instruments.	B4	Providing work needs in operating rooms.
b5.1	Discuss the care & management implication for clients in the preoperative and postoperative.	B5	Discuss preventive methods for patient safety with medical staff and staff in the operating room.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Prepare the operation room for ophthalmic operation.	C1	Preparing the operating room and receiving patients undergoing surgery
c2.1	Organize the ophthalmic equipment in operating table.	C2	Inspect and organize the equipment fitted on the operating table and give the surgeon
c3.1	Prepare ophthalmic operation tools and instruments.	C3	Prepare tools for different stages of the process
c3.2	Prepare the position of patient in OT table.		
c4.1	Provide the ophthalmic operation equipment	C4	Provide materials and equipment for operation
c7.1	Sterile ophthalmic operation equipment before and after operation.	C7	Keep all surgical instruments sterile, tidy and ready for use
c10.1	Assist the surgeon and handing the necessary ophthalmic tools and instruments.	C10	Assist the surgeon during surgery.

<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
<b>d2.1</b>	Communicates effectively with individuals, families, and communities.	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Employ effective communication with surgeons and OT team.	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time in OT.	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>a1.1</b>	Describe the functions of the ophthalmic	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a1.2</b>	Identify the anatomic structures of the ophthalmic.		
<b>a2.1</b>	Determine the optimal drug for ophthalmic during surgery		
<b>a4.1</b>	Know the procedure of ophthalmic surgery		
<b>a5.1</b>	Describe the ophthalmic operations tools and instruments		
<b>a6.1</b>	Discuss the care & management implication for clients in the preoperative and postoperative		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b4.1</b>	Provide the ophthalmic operation tools and instruments.	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>b5.1</b>	Discuss the care & management implication for clients in the preoperative and postoperative.		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
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<b>c1.1</b>	Prepare the operation room for ophthalmic operation.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c2.1</b>	Organize the ophthalmic equipment in operating table.		
<b>c3.1</b>	Prepare ophthalmic operation tools and instruments.		
<b>c3.2</b>	Prepare the position of patient in OT table.		
<b>c4.1</b>	Provide the ophthalmic operation equipment		
<b>c7.1</b>	Sterile ophthalmic operation equipment before and after operation.		
<b>c10.1</b>	Assist the surgeon and handing the necessary ophthalmic tools and instruments.		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d2.1	Communicates effectively with individuals, families, and communities.	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Employ effective communication with surgeons and OT team.		
d5.1	Mange the time in OT.		
d6.1	Keep daily register records of operating theatre department		

## IV. Course Contents:

### A. Theoretical Aspect:

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Anatomy of ophthalmic system</b>	Review of Anatomy of ophthalmic system	1	2	a1.1, a1.2,
2	<b>Care of the Eye Patient</b>	Care of the ophthalmic Patient	2	4	a1.1, a1.2, a2.1, b5.1, d2.1
3	<b>Positioning the patient</b>	□ Positioning the patient in OT for ophthalmic	2	4	a3.2

4	<b>Prepping and Draping the Patient</b>	<input type="checkbox"/> Prepping and Draping the Patient from/to OT.	1	2	a4.1, a5.1, a6.1, b5.1, c1.1, c2.1, c3.1
5	<b>Instruments and sterilization</b>	<input type="checkbox"/> Instruments identification their use, care and sterilization before and after ophthalmic operations	1	2	a4.1, a5.1, b4.1, c1.1, c2.1, c3.1, c3.2, c4.1, c7.1
6	<b>Mid Term exam</b>	<b>Mid Term exam</b>	1	2	All
7	<b>Equipment's</b>	<input type="checkbox"/> Equipment's and Supplies in OT for ophthalmic operation	2	4	a4.1, a5.1, b4.1, c1.1, c2.1, c3.1, c3.2, c4.1, c7.1
8	<b>diagnostic tests</b>	<input type="checkbox"/> Types of diagnostic tests and laboratory tests used preoperatively in the eye patient	2	4	a2.1
9	<b>procedures</b>	<input type="checkbox"/> Commonly performed procedures (definitions, Goal of the procedure, Discussion including instrument, equipment and supplies needed and procedure steps)	2	4	a4.1, c1.1, c2.1, c3.1, c3.2, c4.1, c10.1
10	<b>Management</b>	<input type="checkbox"/> Management of the theatre work	1	2	a6.1, b5.1, c10.1, d2.1, d3.1, d5.1, d6.1
11	<b>Final Exam</b>	<b>Final Exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>ophthalmic operation (Types, classifications, tools, instruments, procedures, drugs, operating room)</b>	15	30	a1.1, a1.2, a2.1, a4.1, a5.1, a6.1, b4.1, b5.1, c1.1, c2.1, c3.1, c3.2, c4.1, c7.1, c10.1, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks</b>		<b>15</b>	<b>30</b>	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
<b>Not Applicable</b>				

## V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

## VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
Total				

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	10	10%	
2	Quizzes		10	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	W15	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	70	40%	
Total			150	100%	

## IX. Learning Resources:

- Written in the following order: Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

### 1- Required Textbook(s) ( maximum two ): مثال example

- Davidson's Principles & Practice of Medicine ( 2010). Elsevier
- Klaus W, Richard AJ (2005). Fitzpatrick's: Color atlas and synopsis of clinical dermatology. McGraw-Hill, 5ed.



**2- Essential References:**

1. Bailey & Love Short Practice of Surgery (2008). Hodder Arnold

**3- Electronic Materials and Web Sites etc.:****Websites:**

1. <http://www.aacn.org/>
2. [www.americanheart.org/](http://www.americanheart.org/)

**X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)**

<b>1</b>	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>2</b>	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
<b>4</b>	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
<b>6</b>	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	critical and emergency cases			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	-	2
4	Study Level/ Semester at which this Course is offered:	Third Level/ Second semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Anesthesia and resuscitation			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*The aim of this course is to enable the student to gain theoretical and practical knowledge about Critical Care, its required to intensively monitor patients in trauma and to manage serious infections with multi-organ dysfunction.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>DD. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
a1.1	Use the aspects of applied Anatomy, Physiology, Biochemistry and Pharmacology for daily practice,	A1	Describe the structure and functions of the human body.
a2.1	Perform diagnosis, assessment, investigation, monitoring and data interpretation of the actively ill patients	A3	Determining the optimal drug and method of drug administration for patients with a specific clinical condition or condition.
a4.1	Organize peri-operative care,	A4	Describe all the different types of anesthesia and how to treat the patient before, during and after anesthesia.
a6.1	Manage critical care in secondary and advanced care facilities,	A6	Understand safety and security methods.
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
b2.1	Plan and implement resuscitation and initial management of the acutely ill patients	B2	Acting in critical situations, emergencies and accidents that may occur to the patient.
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
c1.1	Prepare the operation room for Accidents and critical situations operation.	C1	Checking the readiness of medical devices for anesthesia before the operation.
c2.1	Organize the Accidents and critical situations equipment in operating table.	C2	Preparing the necessary treatments and anesthesia machines.
c2.2	Prepare Accidents and critical situations operation tools and instruments.		
c2.3	Prepare the position of patient in OT table.		
c2.4	Provide the Accidents and critical situations operation equipment		
c2.5	Sterile Accidents and critical situations operation equipment before and after operation.		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
d2.1	Communicates effectively with individuals, families, and communities.	D2	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.

<b>d3.1</b>	Employ effective communication with surgeons and OT team.	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time in OT.	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department	<b>D6</b>	Skillfully write reports.

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>a1.1</b>	Use the aspects of applied Anatomy, Physiology, Biochemistry and Pharmacology for daily practice,	Lecture discussion Demonstration Brain storming	Short answer questions Objective type
<b>a2.1</b>	Perform diagnosis, assessment, investigation, monitoring and data interpretation of the actively ill patients		
<b>a4.1</b>	Organize peri-operative care,		
<b>a6.1</b>	Manage critical care in secondary and advanced care facilities,		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>b2.1</b>	Plan and implement resuscitation and initial management of the acutely ill patients	Lecture discussion Demonstration Brain storming	Short answer questions Objective type

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
<b>c1.1</b>	Prepare the operation room for Accidents and critical situations operation.	Lecture-discussion Group discussions Practical Record book	Assess performance with scale Assess with checklist Evaluation of presentation Practical record. Practical exam
<b>c2.1</b>	Organize the Accidents and critical situations equipment in operating table.		
<b>c2.2</b>	Prepare Accidents and critical situations operation tools and instruments.		
<b>c2.3</b>	Prepare the position of patient in OT table.		
<b>c2.4</b>	Provide the Accidents and critical situations operation equipment		
<b>c2.5</b>	Sterile Accidents and critical situations operation equipment before and after operation.		

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d2.1	Communicates effectively with individuals, families, and communities.	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Employ effective communication with surgeons and OT team.		
d5.1	Mange the time in OT.		
d6.1	Keep daily register records of operating theatre department		

**IV. Course Contents:**

**A. Theoretical Aspect:**

No	Units/Topics List	Sub Topics List	No of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	<b>Resuscitation and Initial Management of the Acutely Ill Patients</b>	1.1 Timely approach to the recognition, assessment and stabilization of the acutely ill patients with disordered physiology 1.2 Cardiopulmonary resuscitation 1.3 Post-resuscitation management 1.4 Triage and prioritization of patients for ICU admission 1.5 Assessment and initial management of the trauma patient 1.6 Assessment and initial management of the patient with burns 1.7 Fundamentals of the management of mass casualties	2	4	<b>a1.1, a2.1, a4.1, b3.1</b>
2	<b>Diagnosis: Assessment, Investigation, Monitoring and Data: Interpretation of the acutely ill patients</b>	2.1 History taking and clinical examination 2.2 Timely and appropriate investigations 2.3 Understanding of echocardiography (trans-thoracic/trans-oesophageal), Indications and interpretation of results 2.4 Understanding of Electrocardiography (ECG/EKG), Indications and interpretation of the results 2.5 Appropriate microbiological sampling and interpretation of results 2.6 Interpretation of results from blood gas samples 2.7 Organization and interpretation of wide range of clinical imaging including bed-side chest x- rays, ultrasound, CT scan, MRI and nuclear imaging relevant for the diagnosis and	2	4	<b>a1.1, a2.1, a4.1, b3.1, c1.1, c2.1</b>

		<p>management of critically ill and injured patients.</p> <p>2.8 Understanding and interpretation of physiological variables</p> <p>2.9 Integration of clinical findings with laboratory, radiology, microbiology and other investigations to form appropriate differential diagnosis and management strategy</p>			
3	<b>Disease Management Acute disease</b>	<p>3.1 Management of the care of the critically ill patient with following specific acute medical conditions • Acute Myocardial Infarction • Pulmonary Embolism • Cardiogenic Shock • Life Threatening Arrhythmias • Pericardial Tamponade • Acute Ischemic Stroke • Intracranial Hemorrhage • Status Epilepticus • Head &amp; Spine Trauma • Acute neuromuscular failure (OPP/GBS/MG/Snakebite, etc) • Acute severe Asthma • Acute Exacerbation of COPD • Severe Community acquired pneumonia • Chest Trauma • Acute hypoxemia Respiratory Failure including ARDS • Acute GI Bleed • Acute Liver Failure • Acute Pancreatitis • Acute Abdomen • Acute coagulation disorders • Sepsis and Septicemic Shock • Meningitis • Acute Hemorrhagic Fevers • Severe forms of tropical infections like Malaria, Typhoid etc. • Acute Renal Failure • Eclampsia • Bone marrow suppression • Critical care of mother and child including pre-eclampsia, eclampsia, acute fatty liver of pregnancy, HELLP syndrome, meconium aspiration syndrome, respiratory distress syndrome, transient tachypnoea of the newborn etc. • Acute poisoning</p> <p><b>Chronic Disease</b></p> <p>3.2 Identifications of the implications of chronic and co morbid disease in the acutely ill patients</p> <p><b>Organ System Failure</b></p> <p>3.3 Management of patients with or at risk of circulatory failure 3.4 Management of patients with or at risk of acute renal failure 3.5 Management of patients with or at risk of acute liver failure 3.6 Management of patients with or at risk of neurological impairment 3.7 Management of patients with or at risk of acute gastrointestinal failure 3.8 Management of</p>	4	8	<b>a1.1, a2.1, a4.1, b3.1, c1.1, c2.1</b>

		patients with or at risk of acute lung injury syndromes (ALI/ARDS) 3.9 Management of patients with or at risk of septic shock 3.10 Management of patients with or at risk of severe sepsis/septic shock with multi-organ dysfunction/failure 3.11 Management of patients following intoxication with drugs or environmental toxins 3.12 Early recognition and treatment of life-threatening complications, in mother and child, including but not limited to like eclampsia, preeclampsia, acute fatty liver of pregnancy, HELLP in mother and respiratory distress in child.			
4	<b>Mid Term exam</b>	<b>Mid Term exam</b>	<b>1</b>	<b>2</b>	All
5	<b>Therapeutic Interventions/Organ System Support in Single or Multiple Organ Failure</b>	4.1 Principles of safe prescription 4.2 Principles of safe delivery of life-support therapies 4.3 Antimicrobial drug therapy – Fundamental principles and ICU specific issues 4.4 Transfusion therapy - Fundamental principles and ICU specific issues 4.5 Circulatory therapies - Fundamental principles and ICU specific issues pertaining to Fluid therapy including dynamic variables of fluid responsiveness and vasoactive/inotropic drugs 4.6 Mechanical circulatory assist devices 4.7 Initiation, management and weaning of the patients from invasive and non-invasive ventilatory support 4.8 Initiation, management and weaning of the patients from renal replacement therapy 4.9 Management of electrolyte, glucose and acid-base disturbances 4.10 Nutritional assessment and support	<b>3</b>	<b>6</b>	<b>a1.1, a2.1, a4.1, a6.1, b3.1, c1.1, c2.1, c2.2, c2.4, c2.5</b>
6	<b>Peri-operative Care</b>	5.1 Management of the pre- & post-operative care of the high risk surgical patients 5.2 Fundamentals of the management of the care of patients following cardiac surgery 5.3 Fundamentals of the management of the patients following craniotomy 5.4 Fundamentals of the management of the patients following solid organ transplantation 5.5 Fundamentals of the management of the pre and post-operative trauma care of the trauma patients	<b>2</b>	<b>4</b>	<b>a1.1, a2.1, a4.1, a6.1, b3.1, c1.1, c2.1, c2.2, c2.4, c2.5</b>

7	<b>Critical Care of Children</b>	6.1 Understanding of the critical care of children including but not limited to early diagnosis, initial management and life support therapies related to pediatric and neonatal emergencies	1	2	a1.1, a2.1, a4.1, a6.1, b3.1, c1.1, c2.1, c2.2, c2.4, c2.5
8	<b>Final Exam</b>	<b>Final Exam</b>	1	2	All
<b>Number of Weeks /and Units Per Semester</b>			16	32	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Critical and emergency cases (Types, classifications, diseases, tools, instruments, procedures, drugs, operations, operating room)</b>	15	30	a1.1, a2.1, a4.1, a6.1, b3.1, c1.1, c2.1, c2.2, c2.4, c2.5, d2.1, d3.1, d5.1, d6.1
<b>Number of Weeks</b>		15	30	

### C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
<b>Not Applicable</b>				

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
<b>Not Applicable</b>				
<b>Total</b>				



### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	10	10%	
2	Quizzes		10	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	W15	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	
6	Final Exam (theoretical)	W14	70	40%	
<b>Total</b>			<b>150</b>	<b>100%</b>	

### IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

#### 1- Required Textbook(s) ( maximum two ): مثال example

1. Textbook of Critical Care (Elsevier)
2. Oxford Textbook of Critical Care (Oxford University Press)

#### 2- Essential References:

3. Critical Care Medicine: Principles of Diagnosis and Management in the Adult (Mosby)
4. Irwin and Rippe's Intensive Care Medicine (LWW)

#### 3- Electronic Materials and Web Sites etc.:

#### Websites:

### X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b>

	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' By law (2007) shall apply.
<b>6</b>	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.

## I. Course Identification and General Information:

1	Course Title:	Field Training-4			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		8	-	-	24
4	Study Level/ Semester at which this Course is offered:	Third Level/ First semester			
5	Pre –Requisite (if any):				
6	Co –Requisite (if any):				
7	Program (s) in which the Course is Offered:	Diploma in Operation Theatre Technique			
8	Language of Teaching the Course:	English/Arabic			
9	Study System:				
10	Mode of Delivery:				
11	Location of Teaching the Course:				
12	Prepared by:				
13	Date of Approval:	2021			

## II. Course Description:

*This course is designed to enable students to gain practical knowledge in hospitals and health centers. Student will train about the ophthalmic operations and various operations in OT.*

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)		Referenced PILOs (مخرجات تعلم البرنامج)	
<b>EE. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:			
<b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:			
<b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to:			
	Must gain All Ci in program		
<b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:			
<b>d2.1</b>	Good communication with patients	<b>D2</b>	Communicate with patients/client respectively regardless of their beliefs, cultures, intellectual levels, and physical conditions.
<b>d3.1</b>	Deal effectively with the surgical	<b>D3</b>	Work effectively with the team in different situations
<b>d5.1</b>	Mange the time according to handling the sets	<b>D5</b>	Effectively manage time.
<b>d6.1</b>	Keep daily register records of operating theatre department.	<b>D6</b>	Skillfully write reports.

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies

<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
Must gain All Ci in program			
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d2.1	Good communication with patients	Practice session Supervised Lab Practice	Assessment of each skill with checklist Completion of activity record
d3.1	Deal effectively with the surgical		
d5.1	Mange the time according to handling the sets		
d6.1	Keep daily register records of operating theatre department		

## 6. Description of Field Training Tasks:

### 1 – At what stage or stages during the program does the field Training occur?

- The students are required to join government or private hospitals or Health centers placements during the semester study.
- The students must execute a given training program within 8 weeks in an hospitals or Health center placement.
- Registration: fill the registration form and complete the registration procedures.
- Supervision: During the practical training, the student will be assigned to two supervisors (department member and training placement); in order to keep track of the student's performance and to supervise the student's work.
- Weekly Report : Students should document their activities every week, the pending tasks, and task plan for the next week.
- Progress Reports: Description of job assignments and activates.
- Final report: Consolidation of notes, memos, previous reports, collected data on training assignments into one finished and final document.
- Presentation: Presenting the report to a committee or faculty/department members and answering related questions about other details
- Evaluation: The training is evaluated by the training members and supervisors at the hospitals/colleges in secrecy method and faculty/department.

### 5 – Procedures of Training:

- The Field training is a 3-credit-hour course and must be taken during the semester by those students The Field training period is 8 weeks long during the semester time of second academic year and third academic year. Student must be oriented in one of hospitals, and well supervised in order to accomplish correctly this training. The training can be performed at any private or governmental hospitals/ centers.
- The students should fulfill the department requirements.

- After finishing the training period, they are required to submit a final report.

### **3- Students Tasks:**

- Students register and should fulfill the department requirements a field training.
- Abide by the rules and regulations of the work in the place that trains the student
- Completion of the training period (8 weeks) in the place of training that is selected and approved by the faculty or department.
- Send the contact's form at the beginning of the training period contains the date of commencement of the training, the name, address of training place and the name of the supervisor, to the faculty/department before the end of the second week of the training period.
- Confirmation on the person who is responsible of training to send student's evaluation reports that are filled during the training period to the faculty/department after the end of the training stage directly.
- Provide all necessary information and requirements to write the final report of the field training by the supervisor.
- Report to the place of work; perform duties as agreed with, and or assigned by supervisor.
- Complete a daily attendance log sheet.
- Write a final report for submission to supervisors and to faculty/department members.

### **4- Students Assignments or Reports (if any).**

<b>Title or description these assignments or reports</b>	<b>When are these assignments or reports required?</b>
10- Weekly Report	Every Week
11- Progress report	Week 5
12- Final Report	After returning from the training

### **5- Students Follow-up:**

- Regular visit students at the place of work,
- Check the student's attendance logbook,
- Check the schedule of duties which are assigned to the student,
- Weekly follow ups with the teams by faculty/department supervisors on progress & communication skills
- Evaluate the students' performance and report the grades accordingly.

### **6- Responsibilities of Supervisory Staff in the Field Training:**

- Guiding the students to subsequently follow tasks as per their field training program, translating tasks into training activities in the field.
- Check the day to day activities of the student including the filling in of the daily roster and duties performed,
- Provide the faculty/department with the report demonstrates the level of performance for each student, and sends this report at the end of the training period,
- Evaluate the student using the evaluation criteria provided faculty/department in secrecy method,
- Allow the officials or persons authorized to visit the student when needed during the training period.

### **7- Responsibilities of Supervisory from the Field/ Institution:**

- Provide the student with the appropriate function, and prepare a work plan together with the student,
- Physically visit students at the place of work,
- Check the schedule of duties which are assigned to the student,
- Discuss performance and conduct of the student with the internal supervisor,
- Discuss progress and problems with the student, and assist to solve student's problems,
- Evaluate the students' performance and report the grades accordingly in secrecy method,
- Grade the student's field report and submit the grade to the supervisor for further transmission to relevant departments in the faculty/department.

### **8- Describe the procedures to be used for students guidance and support.**

The student who is candidate for Field training must:

- Should meet the Field training coordinator within the student's department to fill the registration form. The program coordinator sends registration forms to the faculty to complete the registration procedures,
- Spread an instructions and orientation a student according to his interest.
- Complete all procedures and academic/department requirements associated with students training and complete the following:
  - o Receipt of the formal letter from the faculty to the training institution /company, it includes student definition, specialization and as well as evaluation forms that will be needed during the training period.
  - o Receives a file contains important information, guidelines and forms that relate to Field training processes.
  - o Sign a personal pledge to abide by the Field training terms and identify his full address during the training period.
- Communicate with program coordinator/supervisor in order to know the other requirements of the academic department.
- Get an official letter from the Faculty requesting a placement, and the Faculty provides a standard document that the placement provider could use to confirm that appropriate opportunities would be available to the student.
- Work under supervision of the internal supervisor (supervisor from the placement provider). There is an academic supervisor for any trainee from the department in addition to the Internal Supervisor (supervisor from the placement provider).
- Has to observe confidentiality.
- Has to be punctual at work, and has to portray a high level of integrity and respect to others
- Has to obtain a "training certificate", upon completion of the program. This is an important document for one to keep. The certificate has to be completed by the Internal Supervisor.
- A student who will not complete practical training with no obvious reasons will score a failing grade.
- Should submit a report at the end of the training period.
- At the end of the training period, the student and the placement provider fill some forms that will be used in assessing the student.

## **IV. Training Field Contents:**

No	Field	Sub Field	No of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	ophthalmic operations	In details	8	6	All Ci, d2,d3,d5,d6
2	Orthopedic operations	In details	8	6	All Ci, d2,d3,d5,d6
3	General surgery	In details	8	6	All Ci, d2,d3,d5,d6
4	Final exam	Final exam	1	6	All
Number of Weeks /and Units Per Semester			8	192	

### V. Teaching Strategies of the Course:

- Lecture, Class Discussions, Activity-based Learning, Group Work, Presentation and Interpretation of Data, Demonstration Strategy, Inductive Method, Brainstorming and Practical Examples, Guided Reading, Guided Writing, Read Along and Read Aloud.

### VI. Assessment Methods of the Course:

- Written Exams, Exercises & Homework, Oral Tests, Written Tests, Quizzes, Writing assignments, Presentations, Interactive Class Discussion, Participation

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Not Applicable			
Total				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance & Home works	Weekly	15	10%	
2	Quizzes		15	10%	
3	Laboratory attendance & reports (practical)	Weekly	15	10%	
4	Written Test (practical)	Final	15	10%	
5	Med-Term Exam (theoretical)	W9	30	20 %	



6	Final Exam (theoretical)	W14	60	40%	
Total			150	100%	

## IX. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

1- Required Textbook(s) ( maximum two ): مثال example

2- Essential References:

3- Electronic Materials and Web Sites etc.:

### Websites:

- An Online Medical Dictionary

## X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	<p><b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p><b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
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4	<p><b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
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