

Republic of Yemen
Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of Dentistry
Department of Basic Science
Doctor of Dental Surgery

Course Specification of General Surgery

Course No. (-----)



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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty



I. Course Identification and General Information:

1	Course Title:	General Surgery			
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:	3 rd Level / 1 st Semester			
5	Pre –Requisite (if any):	General pathology			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery			
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:	Faculty of Dentistry			
12	Prepared by:	Dr. Sam Da'er			

II. Course Description:

This course is designed to provide basic understanding of general surgery. It prepares the dental student to know how to deal with general problems such as shock, hemorrhage, infections (specific and non-specific), in order to comprehend the oral surgery course later on in his study. Emphasis is being placed on wound healing, hemostasis, and wound infection.

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program		
A. Knowledge and Understanding:		I, A or E		
a1	Understanding of principles of surgical intervention.			A4
a2	Recognize and evaluate the basis of occurrence of diseases that need to be referred to a specialist.			A2
a3	Ability to observe and interpret physical signs in his clothed patients			A1
B. Intellectual Skills:				
b1	Understanding the competent at carrying out resuscitation techniques and immediate management of cardiac arrest, anaphylactic reaction, upper respiratory obstruction, vasovagal attack, hemorrhage, inhalation or ingestion of foreign bodies, and diabetic coma.			B2
b2	Evaluate the surgical emergencies to outline their clinical management.			B3
C. Professional and Practical Skills:				
c1	Ability to manage simple wounds and management simple surgical problems in the dental setting.			C1
D. Transferable Skills:				
d1	Communicate and appraise clinical problems and treatment plans with other specialties involved in the treatment of patients and working with a team concept			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	Understanding of principles of surgical intervention.	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	Quizzes Midterm Exam Final Exam
a2	Recognize and evaluate the basis of occurrence of diseases that need to be referred to a specialist.	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	Quizzes Midterm Exam Final Exam
a3	Ability to observe and interpret physical signs in his clothed patients	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	Quizzes Midterm Exam Final 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	Understanding the competent at carrying out resuscitation techniques and immediate management of cardiac arrest, anaphylactic reaction, upper respiratory obstruction, vasovagal attack, hemorrhage, inhalation or ingestion of foreign bodies, and diabetic coma.	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	Quizzes Midterm Exam Final Exam
b2	Evaluate the surgical emergencies to outline their clinical management.	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	Quizzes 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	Ability to manage simple wounds and management simple surgical problems in the dental setting.	<ul style="list-style-type: none"> ▪ Demonstration ▪ Debate ▪ Discussion 	<ul style="list-style-type: none"> ▪ Semester Work
(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 and appraise clinical problems and treatment plans with other specialties involved in the treatment of patients and working with a team concept	<ul style="list-style-type: none"> ▪ Self- learning ▪ Discussion ▪ Brainstorming 	<ul style="list-style-type: none"> ▪ Semester Work

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	– History of surgery, Surgery in war and peace, Modern directions and perspectives of surgery	2	4	a1
2	General surgery 1	– Asepsis and antisepsis, infections in surgery, wounds and its surgical treatment, antibiotics in surgery.	1	2	a1,b1
3	General surgery 2	– Burns, shock, bleeding, transfusion, crush and blast syndrome, bandages and immobilization, the basics of surgical immunology and transplantation.	1	2	a1,a3
4	Cardiac surgery	– Congenital cardiac anomalies, mitral and tricuspid stenosis and insufficiency, thoracic aortic aneurysms, pulmonary insufficiency, ischemic heart disease, coronary revascularization, cardiac arrhythmias, pericardial tamponade.	1	2	a2,b1
5	Vascular surgery	– Arteries and veins injuries, embolism, acute arterial thrombosis, chronic occlusive disease of the lower extremities, infectious arteritis, thromboangiitis obliterans-Bürger, thoracic outlet syndrome, gangrene, renovascular hypertension, aneurysm of arteries of the extremity and abdominal aorta, deep vein thrombosis, superficial thrombophlebitis, varicose veins,	1	2	a2,b1

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		chronic venous insufficiency, lymphedema.			
6	Neurosurgery	– Craniocerebral and spinal injuries, degenerative disc disease, cerebrovascular ischemic disease, spontaneous intracranial hemorrhage, intracranial aneurysms, vascular malformations of the brain.	1	2	a2, b1
7	Midterm Exam		1	2	a1, a2, a3, b1
8	Plastic reconstructive surgery	– Free skin transplants, local graft, free skin graft, free muscle graft, hand surgery, esthetic surgery, malignant melanoma, malignant epithelial tumors of the skin.	2	4	a1, a2, b2
9	Orthopedics with traumatology	– Congenital deformities of the feet and hips, locomotor system tumors, morbus Perthes, inflammations of the junction bones, general characteristics of bone fracture and its healing, conservative treatment of fracture, osteosynthesis, clavicle fractures and wrenches, fracture of the shoulder bones, elbow wrenchings, fractures of the forearm bones, injuries of the hand, pelvis fractures, hip wrenching, femoral fractures, knee joint injuries, lower leg fractures, foot injuries.	2	4	a1, a3, b2
10	Pediatric surgery	– gastrointestinal tract atresia and stenosis, ileus in childhood, congenital defects of the abdominal wall, congenital malformation of the urinary tract, anorectal malformation, Hirschsprung's disease, achalasia, tumors. Meckel's diverticulum, children's hernias.	1	2	a1, a3, b2
11	Anesthesiology and reanimation	– General anesthesia, local and regional anesthesia, pain therapy, basics of intensive care unit monitoring, cardiopulmonary	1	2	a3, b2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		resuscitation, perioperative approach to the surgical patient, specificity of metabolism and nutrition of the surgical patient.			
12	Revision	–	1	2	a1, a2, a3, b1, b2
13	Final Exam		1	2	a1, a2, a3, b1, b2
Number of Weeks /and Units Per Semester			16	32	

V. Teaching Strategies of the Course:

- Lectures
- Debate
- Discussion
- Brainstorming
- Self- learning

VI. Assessment Methods of the Course:

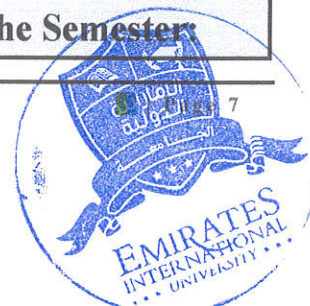
- Quizzes
- Midterm Exam
- Final Exam
- Observation
- Semester Work

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	presentation	2 nd -15 th	10	b1, b2, c1, d1, d2
Total			10	

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

General Surgery



No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Quiz	4 th , 12 th	10	10%	a1, a2, a3, b1, b2
2	Mid-term exam	8 th	30	30%	a1, a2, a3, b1
3	Assignments	2 nd - 15 th	10	10%	b1, b2, c1, d1, d2
4	Final theory	16 th	50	50%	a1, a2, a3, b1, b2
Total			100	100%	

IX. Learning Resources:

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

1- Peter F. Lawrence, Richard M. Bell, Merrill T. Dayton and James C. 2012, Essentials of General Surgery, 5th edition, Hebert, Lippincott Williams & Wilkins

2- Essential References:

Sanjay Marwah, Pt Bhagwat Dayal Sharma, 2010, Textbook of Surgery for Dental Students, 1st edition, Medical Ltd India

3- Electronic Materials and Web Sites etc.:

<https://www.journals.elsevier.com/international-journal-of-surgery>

<https://bjssjournals.onlinelibrary.wiley.com/journal/13652168>

<https://www.americanjournalofsurgery.com/>

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

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	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: 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	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or

	projects shall lose the mark allocated for the same.
5	Cheating: 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	Forgery and Impersonation: 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.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.



Faculty of Dentistry
Department of Basic Science
Doctor of Dental Surgery

Course Plan (Syllabus) of General Surgery
Course No. (-----)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU



II. Course Identification and General Information:

1	Course Title:	General Surgery			
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:	3rd Level / 1st Semester			
5	Pre –Requisite (if any):	General pathology			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery			
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:	Faculty of Dentistry			
12	Prepared by:	Dr. Sam Da'er			

III. Course Description:

This course is designed to provide basic understanding of general surgery. It prepares the dental student to know how to deal with general problems such as shock, hemorrhage, infections (specific and non-specific), in order to comprehend the oral surgery course later on in his study. Emphasis is being placed on wound healing, hemostasis, and wound infection.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding:	
a1	Understanding of principles of surgical intervention.
a2	Recognize and evaluate the basis of occurrence of diseases that need to be referred to a specialist.
a3	Ability to observe and interpret physical signs in his clothed patients
B. Intellectual Skills:	
b1	Understanding the competent at carrying out resuscitation techniques and immediate management of cardiac arrest, anaphylactic reaction, upper respiratory obstruction, vasovagal attack, hemorrhage, inhalation or ingestion of foreign bodies, and diabetic coma.
b2	Evaluate the surgical emergencies to outline their clinical management.
C. Professional and Practical Skills:	
c1	Ability to manage simple wounds and management simple surgical problems in the dental setting.
D. Transferable Skills:	
d1	Communicate and appraise clinical problems and treatment plans with other specialties involved in the treatment of patients and working with a team concept

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction to surgery	– History of surgery, Surgery in war and peace, Modern directions and perspectives of surgery	2	4
2	General surgery 1	– Asepsis and antisepsis, infections in surgery, wounds and its surgical treatment, antibiotics in surgery.	1	2
3	General surgery 2	– Burns, shock, bleeding, transfusion, crush and blast syndrome, bandages and immobilization, the basics of surgical immunology and transplantation.	1	2
4	Cardiac surgery	– Congenital cardiac anomalies, mitral and		2

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		tricuspid stenosis and insufficiency, thoracic aortic aneurysms, pulmonary insufficiency, ischemic heart disease, coronary revascularization, cardiac arrhythmias, pericardial tamponade.		
5	Vascular surgery	– Arteries and veins injuries, embolism, acute arterial thrombosis, chronic occlusive disease of the lower extremities, infectious arteritis, thromboangiitis obliterans-Bürger, thoracic outlet syndrome, gangrene, renovascular hypertension, aneurysm of arteries of the extremity and abdominal aorta, deep vein thrombosis, superficial thrombophlebitis, varicose veins, chronic venous insufficiency, lymphedema.	1	2
6	Neurosurgery	– Craniocerebral and spinal injuries, degenerative disc disease, cerebrovascular ischemic disease, spontaneous intracranial hemorrhage, intracranial aneurysms, vascular malformations of the brain.	1	2
7	Midterm Exam		1	2
8	Plastic reconstructive surgery	– Free skin transplants, local graft, free skin graft, free muscle graft, hand surgery, esthetic surgery, malignant melanoma, malignant epithelial tumors of the skin.	2	4
9	Orthopedics with traumatology	– Congenital deformities of the feet and hips, locomotor system tumors, morbus Perthes, inflammations of the junction bones, general characteristics of bone fracture and its healing, conservative treatment of fracture, osteosynthesis, clavicle fractures and wrenches, fracture of the shoulder bones, elbow wrenchings, fractures of the forearm bones, injuries of the hand, pelvis fractures, hip wrenching, femoral fractures, knee joint injuries,	2	4

V. Course Contents:				
A. Theoretical Aspect:				
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		lower leg fractures, foot injuries.		
10	Pediatric surgery	– gastrointestinal tract atresia and stenosis, ileus in childhood, congenital defects of the abdominal wall, congenital malformation of the urinary tract, anorectal malformation, Hirschsprung's disease, achalasia, tumors. Meckel's diverticulum, children's hernias.	1	2
11	Anesthesiology and reanimation	– General anesthesia, local and regional anesthesia, pain therapy, basics of intensive care unit monitoring, cardiopulmonary resuscitation, perioperative approach to the surgical patient, specificity of metabolism and nutrition of the surgical patient.	1	2
12	Revision	–	1	2
13	Final Exam		1	2
Number of Weeks /and Units Per Semester			16	32

VI. Teaching Strategies of the Course:	
<ul style="list-style-type: none"> – Lectures – Debate – Discussion – Brainstorming – Self- learning 	

VII. Assessment Methods of the Course:

Quizzes
Midterm Exam
Final Exam
Observation
Semester Work

VIII. Assignments:

No.	Assignments	Week Due	Mark
1	presentation	2nd -15th	10
Total			10

IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Quiz	4 th , 12 th	10	10%
2	Mid-term exam	8 th	30	30%
3	Assignments	2 nd - 15 th	10	10%
4	Final theory	16 th	50	50%
Total			100	100%

X. Learning Resources:

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

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General Surgery

