

Republic of Yemen
Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIED
SCIENCES



Faculty of Medicine

Program of Medicine

Bachelor of Medicine and Surgery

Course Specification of

General Surgery Block I

Block Code. (A21P422)

(1st Course)

2022/2023



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Mohammd Abduulkareem	Dr. -----	Dr. -----	Dr. -----	Dr. -----

I. General Information:

1.	Course Title:	General Surgery Block I – (1st Course)				
2.	Block Code:	A21P422				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		5	3	--		6
4.	Level/ Semester at which this Course is offered:	4 th Level / 2 nd Semester				
5.	Pre –Requisite (if any):	Introduction to anatomy, Introduction to Histology, Introduction to pathology, All systems				
6.	Co –Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of Medicine and surgery				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Medicine				
10.	Prepared by:	Dr. Mohammd Abduulkareem				
11.	Date and Number of Approval by Council:					

II. Course Description:

The course is the first course of surgery which spans 4 courses over 2 years. Being the first course, students will be introduced to clinical skills such as history taking and clinical examination. Theoretical knowledge will cover infectious diseases, gastrointestinal and endocrine system and breast disorders through lectures throughout the course. The students will have direct interaction with real patients and will perform supervised clinical duties as history taking and clinical examination with documenting of findings and oral presentation of cases.

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs	
A. Knowledge and Understanding:		I, P or M/A	
a1	Describe the normal structure and function of the human body at molecular, cellular and biochemical, in relation to general surgical disease.	I	A1 Describe the general and basic sciences related to human body structure and functions with emphasis on normal and abnormal conditions.
a2	Identify the etiology, pathogenesis, clinical manifestations, diagnosis differential diagnosis and complications of common surgical disease and important surgical emergencies.	A	A3 Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
B. Intellectual Skills:			
b1	Distinguish between physiological and pathological performance of body cells.	I	B1 Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
b2	Analyze data obtained from medical history, physical examination and para-clinical investigations to reach a final diagnosis and plan the management of common surgical disease and important surgical emergencies.	P	B2 Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.
C. Professional and Practical Skills:			
c1	Perform patient-centered history taking, physical examination and investigations for patient with common surgical	P	C1 Perform complete clinical examination and precise investigations to reach the final

	conditions and emergency situations.			diagnosis.
c2	Perform common laboratory procedures, investigations, and basic interventions that are necessary in relevant surgical conditions.	A	C3	Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.
D. Transferable Skills:				
d1	Use the information technology and internet resources efficiently for self-learning and gaining up-to-date information in the areas of interest.	P	D1	Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.
d2	Act independently or collaboratively as a member of teamwork and communicate effectively with others.	A	D2	Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
I= Introduced, P=Practiced or M/A= Mastered/Advanced				

(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	Describe the normal structure and function of the human body at molecular, cellular and biochemical, in relation to general surgical disease.	<ul style="list-style-type: none"> ▪ Interactive lectures ▪ Discussion ▪ Self-learning 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Written exam
a2	Identify the etiology, pathogenesis, clinical manifestations, diagnosis differential diagnosis and complications of common surgical disease and important surgical emergencies.	<ul style="list-style-type: none"> ▪ Interactive lectures ▪ Discussion ▪ Self-learning 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Written 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 Distinguish between physiological and pathological performance of body cells.	<ul style="list-style-type: none"> ▪ Training ▪ Discussion ▪ Case studies ▪ Self-learning ▪ Seminars 	<ul style="list-style-type: none"> ▪ Written exam ▪ Final oral exam ▪ OSCE
b2 Analyze data obtained from medical history, physical examination and para-clinical investigations to reach a final diagnosis and plan the management of common surgical disease and important surgical emergencies.	<ul style="list-style-type: none"> ▪ Training ▪ Discussion ▪ Case studies ▪ Self-learning ▪ Seminars 	<ul style="list-style-type: none"> ▪ Written exam ▪ Final oral exam ▪ OSCE

(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 patient-centered history taking, physical examination and investigations for patient with common surgical conditions and emergency situations.	<ul style="list-style-type: none"> ▪ Clinical session ▪ Training ▪ Case studies 	<ul style="list-style-type: none"> ▪ Final Clinical Exam ▪ OSCE ▪ Logbook
c2 Perform common laboratory procedures, investigations, and basic interventions that are necessary in relevant surgical conditions.	<ul style="list-style-type: none"> ▪ Clinical session ▪ Training ▪ Case studies 	<ul style="list-style-type: none"> ▪ Final Clinical Exam ▪ OSCE ▪ Logbook

(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 the information technology and internet resources efficiently for self-learning and gaining up-to-date information in the areas	<ul style="list-style-type: none"> ▪ Discussion ▪ Case Study ▪ Self Learning ▪ Presentation 	<ul style="list-style-type: none"> ▪ Oral Discussion ▪ Home Work ▪ Tem work

	of interest.		
d2	Act independently or collaboratively as a member of teamwork and communicate effectively with others.	<ul style="list-style-type: none"> ▪ Discussion ▪ Case Study ▪ Self Learning ▪ Presentation 	<ul style="list-style-type: none"> ▪ Oral Discussion ▪ Home Work ▪ Tem work

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	General surgical considerations I	<ul style="list-style-type: none"> – Wound healing and its disorders – Acid base balance – Fluids and electrolytes 	1 st w	3hrs	a1,b1,b2
2	General surgical considerations II	<ul style="list-style-type: none"> – Haemostasis Surgical Bleeding disorders – Blood transfusion 		3hrs	a1,a2,b1, b2
3	General surgical considerations III	<ul style="list-style-type: none"> – Nutrition in surgical patient – Shock 		3hrs	a1,a2,b1, b2
4	General surgical considerations IV	<ul style="list-style-type: none"> – Surgical site infections and surgical infections 		3hrs	a2,b1,b2
5	General surgical considerations V	<ul style="list-style-type: none"> – Burns – Principle of plastic surgery 		3hrs	a2,b1,b2
6	General surgical considerations VI	<ul style="list-style-type: none"> – Skin graft and flap – Medical problems in surgical patient 	2 nd w	3hrs	a2,b1,b2
7	General surgical considerations VII	<ul style="list-style-type: none"> – Principle of surgical Oncology – Immunology & Transplantation 		3hrs	a1,a2,b1, b2
8	Breast disorder I	<ul style="list-style-type: none"> – Benign breast disorders 		3hrs	a1,a2,b1, b2
9	Breast disorder II	<ul style="list-style-type: none"> – Malignant breast disorders 		3hrs	a1,a2,b1, b2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
10	Endocrine I	– Benign thyroid disorder – Malignant thyroid disorder		3hrs	a1,a2,b1, b2
11	Endocrine II	– Parathyroid surgical disorders – Adrenal surgical disorders	3 rd w	3hrs	a1,a2,b1, b2
12	Abdominal wall I	– Umbilicus and abdominal wall		3hrs	a1,a2,b1, b2
13	Abdominal wall II	– Hernia Principles of laparoscopy		3hrs	a1,a2,b1, b2
14	Esophageal surgical disorders I	– Gastro esophageal reflux (GERD) – Achalasia and hiatal hernia		3hrs	a1,a2,b1, b2
15	Esophageal surgical disorders II	– Neoplasm of esophagus		3hrs	a1,a2,b1, b2
16	Final Theoretical Exam		9 th W	2hrs	a1,a2,b1, b2
Number of Weeks /and Units Per Semester			3W	47hr	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	- Introduction to history taking.	1 st w	6hrs	c1,c2,d1
2	- Introduction to examination		6hrs	c1,c2, d1
3	- General examination skills		6hrs	c1,c2, d1
4	- Evaluation and assessment for preoperative patient		6hrs	c1,c2, d1,d2
5	- Postoperative patient care		6hrs	c1,c2, d1,d2
6	- Approach to patient with burn injury	2 nd w	6hrs	c1,c2,d1,d2
7	- History and examination skills for breast disorder - Approach to patient with breast mass		6hrs	c1,c2,,d1
8	- History and examination skills for surgical neck		6hrs	c1,c2,d1

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	disorder - Approach to patient with neck swelling			
9	- Approach to patient with goiter. Evaluation skills for patient with thyrotoxicosis and plan for management		6hrs	c1,c2, d1
10	Evaluation skills for patient with thyroid tumor and plan for management		6hrs	c1,c2,d1
11	- History and examination skills for hernia - Approach to patient with hernia		6hrs	c1,c2,d1
12	- Evaluation skills for patient with inguinal hernia and plan for management - Evaluation skills for patient with femoral hernia and plan for management - Evaluation skills for patient with incisional hernia	3 rd w	6hrs	c1,c2,d1
13	- Evaluation skills for patient with difficulty swallowing. - Approach to patient with esophageal tumor.		6hrs	c1,c2,d1
14	- Needle and incisional biopsy. - Gross pathological examination for postoperative specimen		6hrs	c1, c2, d1, d2
15	- Final clinical and oral exam	9 th W	3hrs	b1, b2, c1, c2
Number of Weeks /and Units Per Semester		3W	87hrs	

V. Teaching Strategies of the Course:

Lectures
Training
Case studies
Discussion

VI. Assessment Methods of the Course:

- Quizzes
- Final clinical and oral exam
- Final Theoretical Exam
- OSCE
- Logbook
- Oral desiccation & Home Work

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	Logbook	1,2,3 rd W	10	10%	c1, c2
2	Quizzes & Oral desiccation	2-3 rd W	10	10%	a1,a2, d1,d2
3	Final clinical & Oral Exam	9 th W	30	30%	b1,b2, c1, c2
4	Final Theoretical Exam & OSCE	9 th W	50	50%	a1,a2, b1,b2
Total			100	100%	

IX. Learning Resources:

1- Required Textbook(s):

- 1- Normans S.Williams ,P.Ronan O`Connell, Andrew McCaskie 2018 , Bailey and love`s short practice of surgery , 27th Edition , UK, CRC Press .
- 2- Kevin G. Burnand , 2021 , Bailey and love`s short practice of surgery , 6th Edition , UK , CRC Press .

2- Essential References:

- 3- F.Charles Brunicardi et. al , 2019 , Schwartz`s principles of surgery , 11th Edition , USA , McGraw-Hill Education.

3- Electronic Materials and Web Sites etc.:

Websites:

- 1- The Visible Body Learn Site
<https://www.visiblebody.com/learn/nervous>
- 2- Medical news today

<https://www.medicalnewstoday.com/articles/307076>

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 Medicine

Program of Medicine

Bachelor of Medicine and Surgery

Course Plan (Syllabus) of

General Surgery Block I

Block Code. (A21P422)

(1st Course)

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

2022/2023

II. Course Identification and General Information:

Course Title:	General Surgery Block I – (1st Course)				
Block Code:	A21P422				
Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	Clinical
		Lecture	Tutorial/Seminar	Lab	
	5	3	--		
Level/ Semester at which this Course is offered:	4th Level / 2nd Semester				
Pre –Requisite (if any):	Introduction to anatomy, Introduction to Histology, Introduction to pathology, All systems				
Co –Requisite (if any):	None				
Program (s) in which the Course is Offered:	Bachelor of Medicine and surgery				
Language of Teaching the Course:	English				
Location of Teaching the Course:	Faculty of Medicine				
Prepared by:	Dr. Mohammd Abduulkareem				
11	Date and Number of Approval by Council:				

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The course is the first course of surgery which spans 4 courses over 2 years. Being the first course, students will be introduced to clinical skills such as history taking and clinical examination. Theoretical knowledge will cover infectious diseases, gastrointestinal and endocrine system and breast disorders through lectures throughout the course. The students will have direct interaction with real patients and will perform supervised clinical duties as history taking and clinical examination with documenting of findings and oral presentation of cases.

IV. Course Intended Learning Outcomes (CILOs) :

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

A. Knowledge and Understanding:

- a1 Describe the normal structure and function of the human body at molecular, cellular and biochemical, in relation to general surgical disease.
- a2 Identify the etiology, pathogenesis, clinical manifestations, diagnosis differential diagnosis and complications of common surgical disease and important surgical emergencies.

B. Intellectual Skills:

- b1 Distinguish between physiological and pathological performance of body cells.
- b2 Analyze data obtained from medical history, physical examination and para-clinical investigations to reach a final diagnosis and plan the management of common surgical disease and important surgical emergencies.

C. Professional and Practical Skills:

- c1 Perform patient-centered history taking, physical examination and investigations for patient with common surgical conditions and emergency situations.
- c2 Perform common laboratory procedures, investigations, and basic interventions that are necessary in relevant surgical conditions.

D. Transferable Skills:

- d1 Use the information technology and internet resources efficiently for self-learning and gaining up-to-date information in the areas of interest.
- d2 Act independently or collaboratively as a member of teamwork and communicate effectively with others.

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IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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2	General surgical considerations II	<ul style="list-style-type: none"> Hemostasis Surgical Bleeding disorders Blood transfusion 		3hrs
3	General surgical considerations III	<ul style="list-style-type: none"> Nutrition in surgical patient Shock 		3hrs
4	General surgical considerations IV	<ul style="list-style-type: none"> Surgical site infections and surgical infections 		3hrs
5	General surgical considerations V	<ul style="list-style-type: none"> Burns Principle of plastic surgery 		3hrs
6	General surgical considerations VI	<ul style="list-style-type: none"> Skin graft and flap Medical problems in surgical patient 	2 nd w	3hrs
7	General surgical considerations VII	<ul style="list-style-type: none"> Principle of surgical Oncology Immunology & Transplantation 		3hrs
8	Breast disorder I	<ul style="list-style-type: none"> Benign breast disorders 		3hrs
9	Breast disorder II	<ul style="list-style-type: none"> Malignant breast disorders 		3hrs
10	Endocrine I	<ul style="list-style-type: none"> Benign thyroid disorder Malignant thyroid disorder 	3 rd w	3hrs
11	Endocrine II	<ul style="list-style-type: none"> Parathyroid surgical disorders Adrenal surgical disorders 		3hrs
12	Abdominal wall I	<ul style="list-style-type: none"> Umbilicus and abdominal wall 		3hrs
13	Abdominal wall II	<ul style="list-style-type: none"> Hernia Principles of laparoscopy 	3hrs	

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
14	Esophageal surgical disorders I	– Gastro esophageal reflux (GERD) – Achalasia and hiatal hernia		3hrs
15	Esophageal surgical disorders II	– Neoplasm of esophagus		3hrs
16	Final Theoretical Exam		9 th W	2hrs
Number of Weeks /and Units Per Semester			3W	47hr

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	- Introduction to history taking.	1 st w	6hrs
2	- Introduction to examination		6hrs
3	- General examination skills		6hrs
4	- Evaluation and assessment for preoperative patient		6hrs
5	- Postoperative patient care		6hrs
6	- Approach to patient with burn injury	2 nd w	6hrs
7	- History and examination skills for breast disorder - Approach to patient with breast mass		6hrs
8	- History and examination skills for surgical neck disorder - Approach to patient with neck swelling		6hrs
9	- Approach to patient with goiter. Evaluation skills for patient with thyrotoxicosis and plan for management		6hrs
10	Evaluation skills for patient with thyroid tumor and plan for management		6hrs
11	- History and examination skills for hernia - Approach to patient with hernia		3 rd w
12	- Evaluation skills for patient with inguinal hernia and plan for management - Evaluation skills for patient with femoral hernia and plan for management	6hrs	

No.	Tasks/ Experiments	Week Due	Contact Hours
	- Evaluation skills for patient with incisional hernia		
13	- Evaluation skills for patient with difficulty swallowing. - Approach to patient with esophageal tumor.		6hrs
14	- Needle and incisional biopsy. - Gross pathological examination for postoperative specimen		6hrs
15	- Final clinical and oral exam	9 th W	3hrs
Number of Weeks /and Units Per Semester		3W	87hrs

V. Teaching Strategies of the Course:

Lectures
Training
Case studies
Discussion

VI. Assessment Methods of the Course:

Quizzes
Final clinical and oral exam
Final Theoretical Exam
OSCE
Logbook
Homework & Oral desiccation

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Logbook	1,2,3 rd W	10	10%
2	Quizzes & Oral desiccation	2-3 rd W	10	10%
3	Final clinical & Oral Exam	9 th W	30	30%

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
4	Final Theoretical Exam & OSCE	9 th W	50	50%
Total			100	100%

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Websites:

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- Medical news today
<https://www.medicalnewstoday.com/articles/307076>

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	projects shall lose the mark allocated for the same.
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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.