

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)

(2nd Course)

2022/2023



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

Prepared by:

Dr. Mohammd
Abduulkareem

Reviewed by:

Dr. -----

Head of the Department:

Dr. -----

Quality Unit:

Dr. -----

Dean

Dr. -----

I. General Information:

1.	Course Title:	General Surgery Block I – (2nd 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):	All System				
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 Abdulkareem				
11.	Date and Number of Approval by Council:					

II. Course Description:

The course is the second course in surgery. Students are expected to have acquired essential clinical skills in the first course and building on that will be guided through more advanced training and clinical problems. Clinically, students will be more involved in caring for patients and are expected to demonstrate basic clinical skills and further advance their clinical and communication skills.

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 conditions and emergency situations.	P	C1	Perform complete clinical examination and precise investigations to reach the final 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	Stomach I	<ul style="list-style-type: none"> – peptic ulcer disease and it's complication – Gastric outlet obstruction 	4 th w	3hrs	a1,a2,b1, b2
2	Stomach II	<ul style="list-style-type: none"> – Benign and malignant gastric neoplasm 		3hrs	a1,a2,b1, b2
3	Intestine I	<ul style="list-style-type: none"> – Intestinal obstruction 		3hrs	a1,a2,b1, b2
4	Intestine II	<ul style="list-style-type: none"> – Inflammatory bowel disease – Mesenteric ischemia 		3hrs	a1,a2,b1, b2
5	Intestine III	<ul style="list-style-type: none"> – Mickles diverticulum – Benign and malignant disease of small intestine 		3hrs	a1,a2,b1, b2
6	Intestine IV	<ul style="list-style-type: none"> – Diverticular disease – Upper & Lower GIT bleeding 	5 th w	3hrs	a1,a2,b1, b2
7	Intestine V	<ul style="list-style-type: none"> – Vermiform appendix 		3hrs	a1,a2,b1, b2
8	Intestine VI	<ul style="list-style-type: none"> – Colonic and rectal tumours 		3hrs	a1,a2,b1, b2
9	Peritoneum & mesentery	<ul style="list-style-type: none"> – Acute conditions of Peritoneum & mesentery – Chronic conditions Peritoneum & mesentery – Benign and malignant disorder of 		3hrs	a1,a2,b1, b2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		Peritoneum & mesentery			
10	Acute abdomen	<ul style="list-style-type: none"> Approach to patient with acute abdomen Differential diagnosis Management 		3hrs	a1,a2,b1, b2
11	Rectum and anal canal	<ul style="list-style-type: none"> Acute perianal conditions Chronic perianal conditions Benign and malignant disorder of anal canal 		3hrs	a1,a2,b1, b2
12	Hepato-biliary disease I	<ul style="list-style-type: none"> Splenic disease 		3hrs	a1,a2,b1, b2
13	Hepato-biliary disease II	<ul style="list-style-type: none"> Liver surgical disease 		3hrs	a1,a2,b1, b2
14	Hepato-biliary disease III	<ul style="list-style-type: none"> Hydatid cysts Portal hypertension 	6 th w	3hrs	a1,a2,b1, b2
15	Hepato-biliary disease IV	<ul style="list-style-type: none"> Gall bladder disease and complication 		3hrs	a1,a2,b1, b2
16	Hepato-biliary disease V	<ul style="list-style-type: none"> Acute and chronic pancreatitis Pancreatic neoplasm 		3hrs	a1,a2,b1, b2
17	Final exam		9 th w	3hrs	a1,a2,b1, b2
Number of Weeks /and Units Per Semester			4W	48hrs	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	Review of history taking .	4 th w	6hrs	c1,c2,d2
2	review of examination		6hrs	c1,c2,d2
3	History and examination for GIT disorder		6hrs	c1,c2,d2

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
4	Evaluation skills for patient presented with acute abdomen		6hrs	c1,c2,d1,d2
5	-Evaluation skills for patient with peptic ulcer and its complications and plan for management -Evaluation skills for patient with gastric outlet obstruction and gastric cancer		6hrs	c1,c2,d1,d2
6	Evaluation skills for patient presented with intestinal obstruction and approach for therapeutic plan		6hrs	c1,c2,d1,d2
7	Evaluation skills for patient presented with appendicular disease and approach for therapeutic plan		6hrs	c1,c2,d1,d2
8	-Evaluation skills for patient with inflammatory bowel disease and its complications and plan for management. -Evaluation skills for patient with diverticular disease and its complications and plan for management	5 th w	6hrs	c1,c2,d1,d2
9	Evaluation skills for patient with mesenteric ischemia and plan for management		6hrs	c1,c2,d1,d2
10	Approach to patient with intestinal tumors and plan for management.		6hrs	c1,c2,d1,d2
11	-History and examination skills for patient with procto-anal disorder. -Evaluation skills for patient with hemorrhoid and plan for management.		6hrs	c1,c2,d1,d2
12	-Evaluation skills for patient with perianal abscess and fistula and plan for management. -Evaluation skills for patient with anal fissure and plan for management	6 th – 7 th w	6hrs	c1,c2,d1,d2
13	-History and examination skills for hepatobiliary disease. -Approach to patient with hydatid cyst.		6hrs	c1,c2,c3,c4,d1,d2
14	-Evaluation skills for patient with gallbladder and common bile duct stone and plan for management. -Evaluation skills for patient with cholecystitis and		6hrs	c1,c2, d1, d2

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	plan for management			
15	-Evaluation skills for patient with acute pancreatitis and plan for management -Evaluation skills for patient with pancreatic tumor and plan for management.		6hrs	c1,c2,d1,d2
16	Final clinical and oral exam	8 th w	3hrs	c1, c2, d1, d2
Number of Weeks /and Units Per Semester		5W	93hrs	

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	4-7 th W	10	10%	c1, c2
2	Quizzes & Oral desiccation	7 th W	10	10%	a1,a2, d1,d2
3	Final clinical & Oral Exam	8 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	<p>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.</p>
2	<p>Tardiness: 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>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.</p>
4	<p>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.</p>
5	<p>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)</p>

	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)

(2nd 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 – (2nd Course)				
Block Code:	A21P422				
Credit Hours:	Credit Hours	Theory Contact Hours			Prac tical Con tact Hou rs
		Lecture	Tutorial/S eminar	Lab	Clini cal
	5	3	--		6
Level/ Semester at which this Course is offered:	4th Level / 2nd Semester				
Pre –Requisite (if any):	All System				
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:					

III. Course Description:

The course is the second course in surgery. Students are expected to have acquired essential clinical skills in the first course and building on that will be guided through more advanced training and clinical problems. Clinically, students will be more involved in caring for patients and are expected to demonstrate basic clinical skills and further advance their clinical and communication skills.

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.
I= Introduced, P=Practiced or M/A= Mastered/Advanced	

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Stomach I	– peptic ulcer disease and it's complication	4 th w	3hrs

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		– Gastric outlet obstruction		
2	Stomach II	– Benign and malignant gastric neoplasm		3hrs
3	Intestine I	– Intestinal obstruction		3hrs
4	Intestine II	– Inflammatory bowel disease – Mesenteric ischemia		3hrs
5	Intestine III	– Mickles diverticulum – Benign and malignant disease of small intestine		3hrs
6	Intestine IV	– Diverticular disease – Upper & Lower GIT bleeding	5 th w	3hrs
7	Intestine V	– Vermiform appendix		3hrs
8	Intestine VI	– Colonic and rectal tumours		3hrs
9	Peritoneum & mesentery	– Acute conditions of Peritoneum & mesentery – Chronic conditions Peritoneum & mesentery – Benign and malignant disorder of Peritoneum & mesentery		3hrs
10	Acute abdomen	– Approach to patient with acute abdomen – Differential diagnosis – Management		3hrs
11	Rectum and anal canal	– Acute perianal conditions – Chronic perianal conditions – Benign and malignant disorder of anal canal	3hrs	
12	Hepato-biliary disease I	– Splenic disease	6 th w	3hrs
13	Hepato-biliary disease II	– Liver surgical disease		3hrs
14	Hepato-biliary	– Hydatid cysts		3hrs

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	disease III	– Portal hypertension		
15	Hepato-biliary disease IV	– Gall bladder disease and complication		3hrs
16	Hepato-biliary disease V	– Acute and chronic pancreatitis – Pancreatic neoplasm		3hrs
17	Final exam		9 th w	3hrs
Number of Weeks /and Units Per Semester			4W	48hrs

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	Review of history taking .	4 th w	6hrs
2	review of examination		6hrs
3	History and examination for GIT disorder		6hrs
4	Evaluation skills for patient presented with acute abdomen		6hrs
5	-Evaluation skills for patient with peptic ulcer and its complications and plan for management -Evaluation skills for patient with gastric outlet obstruction and gastric cancer		6hrs
6	Evaluation skills for patient presented with intestinal obstruction and approach for therapeutic plan	5 th w	6hrs
7	Evaluation skills for patient presented with appendicular disease and approach for therapeutic plan		6hrs
8	-Evaluation skills for patient with inflammatory bowel disease and its complications and plan for management. -Evaluation skills for patient with diverticular disease and its complications and plan for management		6hrs
9	Evaluation skills for patient with mesenteric ischemia and plan for management		6hrs
10	Approach to patient with intestinal tumors and plan for management.		6hrs

No.	Tasks/ Experiments	Week Due	Contact Hours
11	-History and examination skills for patient with procto-anal disorder. -Evaluation skills for patient with hemorrhoid and plan for management.	6 th -7 th w	6hrs
12	-Evaluation skills for patient with perianal abscess and fistula and plan for management. -Evaluation skills for patient with anal fissure and plan for management		6hrs
13	-History and examination skills for hepatobiliary disease. -Approach to patient with hydatid cyst.		6hrs
14	-Evaluation skills for patient with gallbladder and common bile duct stone and plan for management. -Evaluation skills for patient with cholecystitis and plan for management		6hrs
15	-Evaluation skills for patient with acute pancreatitis and plan for management -Evaluation skills for patient with pancreatic tumor and plan for management.		6hrs
16	Final clinical and oral exam	8 th w	3hrs
Number of Weeks /and Units Per Semester		5W	93hrs

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	4-7 th W	10	10%
2	Quizzes & Oral desiccation	7 th W	10	10%
3	Final clinical & Oral Exam	8 th W	30	30%
4	Final Theoretical Exam & OSCE	9 th W	50	50%
Total			100	100%

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3- Electronic Materials and Web Sites etc.:

Websites:

- 3- The Visible Body Learn Site
<https://www.visiblebody.com/learn/nervous>
- 4- Medical news today
<https://www.medicalnewstoday.com/articles/307076>

XI. Course Policies: (Based on the Uniform Students' Bylaw (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.