

STUDY GUIDE

General Surgery – 2 Module

1202611



Course Coordinators

Dr. Yasir Mehmood

dr.yasir@live.co.uk

Yasir.abdulhaq@nbu.edu.sa

Course Identification

1. Credit hours	12
2. Level/year at which this course is offered	6 th year
3. Pre-requisites for this course	General Surgery – 1 Module

Course Contributors

Departments	Names	E-mails
Surgery	Dr. Majed Alrowaili	malrowaili@nbu.edu.sa
Surgery	Dr. Yasir Mehmood	dr.yasir@live.co.uk
Surgery	Dr. Riyadh Al-ham Yahiya	rylaham@hotmail.com
Surgery	Dr. Malik Azhar Hussain	drmalikazhar@yahoo.com
Surgery	Dr. Muhammad Ayub	dr.ayubjat@yahoo.com
Surgery	Dr. Haider Usman	drelmispah@yahoo.com

Actual Learning Hours

No	Activity	Learning Hours
Contact Hours		
1	Lecture	57
2	Laboratory(Skill lab)	20
3	Tutorial	10
4	Clinical bedside teaching(BST)	75
5	Problem based learning(PBL)	10
6	Case presentation(CP)	20
	Total	192
Other Learning Hours*		
1	Study	200
2	Assignments	30
3	Library	30
4	Projects/Research Essays/Theses	28
	Total	480

Program Mission and Goals

برنامج كلية الطب
Program MBBS

جامعة الحدود الشمالية
NORTHERN BORDER UNIVERSITY
كلية الطب

الرسالة:

إعداد أطباء يتميزون بالكفاءة المعرفية السريرية والبحثية لتقديم الخدمات الصحية وتعزيز صحة المجتمع محلياً وإقليمياً

الأهداف:

- ◀ تخريج الأطباء المتميزين بالمهارات المهنية والبحثية.
- ◀ تعزيز ممارسات القيادة والتواصل الفعال.
- ◀ إكساب الطلاب مهارات العمل الجماعي والتعلم الذاتي المستمر.
- ◀ تحسين جودة الخدمات الصحية والشراكة المجتمعية محلياً.
- ◀ تشجيع البحث العلمي الطبي.

Mission:

Preparing physicians characterized by cognitive, clinical and research competencies to provide health services that enhance community health locally and regionally.

Goals:

- ▶ Graduating distinguished physicians with professionalism and research skills.
- ▶ Enhance the practice of leadership and effective communication.
- ▶ Teach students teamwork skills and continuous self-learning.
- ▶ Improving the quality of health services and community partnership regionally.
- ▶ Encouraging scientific medical researches.

 From the North to the Nation

 من الشمال .. إلى الوطن

Course Objectives

1. Course Description

1. It is 12 weeks general surgery course which covers theoretical basis of general surgical diseases, clinical assessment of the patients who present to attached teaching MOH hospitals and learning of common surgical skills like instrument and surgical suture identification, demonstrating structural clinical tasks and principals of prescription writing.

2. Course Main Objective

Assess patient clinically, Make provisional diagnosis on basis of clinical assessment, Advise relevant investigation, Interpret results of investigation, Make diagnosis on the basis of clinical assessment and investigation ,

Participates in problem based learning, Collaborate with his/her colleagues

Diagnose community health problems , Communicate with patients and their relatives about their disease, Suggest management plan, Discuss management plan with patients and their relatives.

Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	Identify the patterns, causes, pathogenesis, clinical presentations, investigations, treatment outlines, and complications of common medical diseases related to surgery	K2
2	Skills:	
2.1	Interpret the results of clinical, laboratory, and radiological findings for proper problem solving and decision making	S1
2.2	Obtain an accurate and comprehensive history.	S3
2.3	Perform a complete systematic physical examination.	S3
2.4	Manage appropriately patients with basic surgical problems	S5
2.5	Communicate properly with colleagues and instructors	S6
3	Values:	
3.1	Demonstrate professionalism and ethical attitude	V1
3.2	Operate self-learning from updated medical information from different approved sources in the web.	V2
3.3	Demonstrate the capacity for self-reflection and personal development	V2

Course Content

No	List of Topics	Contact Hours
Lectures		55
1	Introduction to Module	2
2	Fluid and electrolytes imbalance management	1
3	Management of Shock	1
4	Acid base balance application	1
5	Management of salivary glands tumors	1
6	Management of wound and scars	1
7	Surgical nutrition	1
8	Principles of plastic & reconstructive surgery	1
9	Diabetic Foot Management	1
10	Abdominal trauma	1
11	Abdominal Hernias	1
12	Wound dehiscence and incisional hernia	1
13	Hirschsprung's disease and anorectal malformation.	1
14	Goitre Benign	1
15	Thyroid Neoplasm	1
16	Parathyroid diseases	1
17	Peri-anal fissure/fistula and Haemorrhoids	1
18	Hepatobilliary Malignancies	1
19	Obesity & Bariatric surgery	1
20	Congenital malformations (esophageal, intestinal atresia, rotations, diaphragmatic hernia,	1
21	Intussusception / infantile hypertrophic pyloric stenosis	1
22	Acute Appendicitis	1
23	Adrenal tumors	1
24	Peri operative care of high risk patient	1
25	Complications of peptic ulcer and management	1
26	Cholecystitis and gall stones	1
27	Management of obstructive jaundice	1
28	Management of Surgical infections	1
29	Management of acute and chronic Pancreatitis	1
30	Management of carcinoma pancreas	1
31	Endocrine pancreatic cancers	1
32	Management of Gastric malignancy	1
33	Esophageal motility disorders	1
34	Benign Breast Disease	1

35	Thoracic trauma	1
36	Aneurysms	1
37	Breast Neoplasm	1
38	Esophageal tumors	1
39	Hydrocephalus	1
40	Management of Gastritis and Peptic ulcer disease	1
41	Esophageal perforation and reflux disease	1
42	Head injury	1
43	Inflammatory bowel diseases	1
44	Carcinoma rectum and anal canal	1
45	Diverticular disease of large intestine	1
46	Intracranial tumors	1
47	Inguino-scrotal, hypospadias and umbilical hernia, abdominal wall defects	1
48	Management of Varicose veins/ Ulcer	1
49	Cardiac surgery	1
50	Carcinoma colon	1
51	Intestine obstruction	1
52	Arterial stenosis and occlusion	1
53	Management of Burns and its complications	1
54	Management of Venous thrombo-embolism	1
55	subarachnoid hemorrhage & Peripheral nerve disorders	1
56	Lymphatic disorders	1
Skill Laboratory		10
1	Nasogastric tube	1
2	Surgical Sutures	1
3	Chest tube insertion	1
4	Surgical Instruments	1
5	Airway management (ETT, Tracheostomy)	1
6	X-Rays	1
7	Foley's catheter	1
8	Proctoscope and Sigmoidoscope	1
9	FNAC & Tru cut biopsy	1
10	CVP line and IV cannulas	1
Tutorial		10
1	Blood transfusion and reaction	1
2	Sterilization and Disinfection	1
3	Cleft lip and palate	1
4	Inguino-scrotal swelling	1

5	Meckel's diverticulum and mesenteric adenitis	1
6	Multiple endocrine neoplasia (MEN's Syndrome)	1
7	Acute arterial occlusions and gangrene	1
8	Complications of peptic ulcer surgery	1
9	Peri-anal abscess and Pilonidal sinus	1
10	Liver abscess and Hydatid cysts	1
Clinical bedside teaching		80
1	General History taking	6
2	History of pain and swelling	3
3	General Physical examination	
4	Abdominal examination	6
5	Swelling examination	6
6	Thyroid examination	3
7	Breast examination	3
8	Hernia examination	3
9	Peripheral vascular system examination	3
10	Ulcer and Diabetic foot examination	3
11	Ulcer examination	3
12	Varicose veins	3
13	Scrotal examination	3
14	Peripheral nerve examination	3
15	Chest examination	3
16	Digital rectal examination	3
17	Case discussion of pain right upper abdomen	3
18	Case discussion of pain right lower abdomen	3

19	Case discussion of inguino-scrotal swelling	3
20	Case discussion of neck swelling	3
21	Case discussion of breast lump	3
22	Case discussion of Road traffic accident	3
23	Case discussion and examination of Head injury	3
24	Case discussion of Diabetic foot	3
	Problem based learning	5
1	Hernia	1
2	Hepato-biliary diseases	1
3	Breast lump	1
4	Head injury	1
5	Lower GI bleeding	1
	Cases presentation (Prepared by the students)	20
1	Acute appendicitis	2
2	Acute Cholecystitis	2
3	Obstructive jaundice	2
4	Breast lump	2
5	Inguinal Hernia	2
6	Goitre	2
7	Diabetic foot	2
8	Case of Road traffic accident	2
9	Head Injury	2
10	Chest trauma	2
Total		180

Teaching strategies and Assessment Methods for Students

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Identify the patterns, causes, pathogenesis, clinical presentations, investigations, treatment outlines, and complications of common medical diseases related to surgery	Direct Instructional (lectures) Interactive (Tutorials)	Written exam (MCQs)
2.0	Skills		
2.1	Interpret the results of clinical, laboratory, and radiological findings for proper problem solving and decision making	Interactive (PBL, CP, Tutorial)	Written exam OSCE Long case assessment PBL checklist CP checklist
2.2	Obtain an accurate and comprehensive history.	Experiential learning (Skill lab, BST)	OSCE Long cases clinical examination
2.3	Perform a complete systematic physical examination.	Experiential learning (Skill lab, BST)	OSCE Long and short cases clinical examination
2.4	Manage appropriately patients with basic surgical problems	Experiential learning (Skill lab, BST)	OSCE Long cases clinical examination
2.5	Communicate properly with colleagues and instructors	Interactive (PBL, CP, Tutorial)	CP checklist PBL check list
3.0	Competence		
3.1	Demonstrate professionalism and ethical attitude	Interactive (PBL, CP, Tutorial)	PBL checklist CP checklist
3.2	Operate self-learning from updated medical information from different approved sources in the web.	Interactive (PBL, CP, Tutorial)	PBL checklist CP checklist
3.3	Demonstrate the capacity for self-reflection and personal development	Experiential learning (Skill lab, BST)	Short case assessment and long case assessment

Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz	6 th	10%
2	Problem based learning checklist	Weekly	5%
3	Case presentations checklist	Weekly	5%
4	OSCE	12 th	10%
5	Written exam (MCQS)	12 th	40%
6	Long case	13 th	15%
7	Short case	13 th	15%
	Total		100%

Course blueprint (% of total summative marks in blue print is to be given in the range)

Topics	Teaching strategies	Assessment methods	Knowledge		Skill						Values			% of total contact hours	% of total summative marks
			K1	K2	S1	S2	S3	S4	S5	S6	V1	V2	V3		
Fluid and electrolytes imbalance management	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Management of Shock	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Acid base balance application	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Management of salivary glands tumors	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Management of wound and scars	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Surgical nutrition	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Principles of plastic & reconstructive surgery	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Diabetic Foot Management	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Abdominal trauma	Lecture	Written exams		0-3	0-2									0.5%	0-1%
Abdominal Hernias	Lecture	Written exams		0-3	0-2									0.5%	0-1%

Topics	Teaching strategies	Assessment methods	Knowle dge		Skill					Values			% of total conta ct hours	% of total sum mati ve mark s
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
Wound dehiscence and incisional hernia	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Hirschsprung’s disease and anorectal malformation.	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Goitre Benign	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Thyroid Neoplasm	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Parathyroid diseases	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Peri-anal fissure/fistula and Haemorrhoids	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Hepatobilliary Malignancies	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Obesity & Bariatric surgery	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Congenital malformations (esophageal, intestinal atresia, rotations, diaphragmatic hernia,	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Intussusception / infantile hypertrophic pyloric stenosis	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Acute Appendicitis	Lecture	Written		0-3	0-2								0.5%	0-1%

Topics	Teaching strategies	Assessment methods	Knowle dge		Skill					Values			% of total conta ct hours	% of total sum mati ve mark s
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
		exams												
Adrenal tumors	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Peri operative care of high risk patient	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Complications of peptic ulcer and management	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Cholecystitis and gall stones	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of obstructive jaundice	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of Surgical infections	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of acute and chronic Pancreatitis	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of carcinoma pancreas	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Endocrine pancreatic cancers	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of Gastric malignancy	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Esophageal motility disorders	Lecture	Written exams		0-3	0-2								0.5%	0-1%

Topics	Teaching strategies	Assessment methods	Knowledge		Skill					Values			% of total contact hours	% of total summative marks
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
Benign Breast Disease	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Thoracic trauma	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Aneurysms	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Breast Neoplasm	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Esophageal tumors	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Hydrocephalus	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of Gastritis and Peptic ulcer disease	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Esophageal perforation and reflux disease	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Head injury	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Inflammatory bowel diseases	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Carcinoma rectum and anal canal	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Diverticular disease of large intestine	Lecture	Written exams		0-3	0-2								0.5%	0-1%

Topics	Teaching strategies	Assessment methods	Knowledge		Skill					Values			% of total contact hours	% of total summative marks
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
Intracranial tumors	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Inguino-scrotal, hypospadias and umbilical hernia, abdominal wall defects	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of Varicose veins/ Ulcer	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Cardiac surgery	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Carcinoma colon	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Intestine obstruction	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Arterial stenosis and occlusion	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of Burns and its complications	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Management of Venous thrombo-embolism	Lecture	Written exams		0-3	0-2								0.5%	0-1%
subarachnoid hemorrhage & Peripheral nerve disorders	Lecture	Written exams		0-3	0-2								0.5%	0-1%
Lymphatic disorders	Lecture	Written		0-3	0-2								0.5%	0-1%

Topics	Teaching strategies	Assessment methods	Knowledge		Skill					Values			% of total contact hours	% of total summative marks
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
		exams												
Blood transfusion and reaction	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Sterilization and Disinfection	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Cleft lip and palate	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Inguino-scrotal swelling	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Meckel’s diverticulum and mesenteric adenitis	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Multiple endocrine neoplasia (MEN’s Syndrome)	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Acute arterial occlusions and gangrene	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Complications of peptic ulcer surgery	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Peri-anal abscess and Pilonidal sinus	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Liver abscess and Hydatid cysts	Tutorial	Written exams		0-2	0-1								0.5%	0-1%
Nasogastric tube	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%

Topics	Teaching strategies	Assessment methods	Knowledge		Skill					Values			% of total contact hours	% of total summative marks
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
Surgical Sutures	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
Chest tube insertion	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
Surgical Instruments	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
Airway management (ETT, Tracheostomy)	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
X-Rays	Skill lab	OSCE			S1	S2	S3						0.5%	0-3%
Foley’s catheter	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
Proctoscope and Sigmoidoscope	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
FNAC & Tru cut biopsy	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
CVP line and IV cannulas	Skill lab	OSCE			S1	S2	S3						0.5%	0-1%
Hernia	PBL	PBL check list							S6	V1	V2		1%	1%
Hepato-biliary diseases	PBL	PBL check list							S6	V1	V2		1%	1%
Breast lump	PBL	PBL check list							S6	V1	V2		1%	1%
Head injury	PBL	PBL check list							S6	V1	V2		1%	1%
Lower GI bleeding	PBL	PBL check list							S6	V1	V2		1%	1%

Topics	Teaching strategies	Assessment methods	Knowle dge		Skill					Values			% of total conta ct hours	% of total sum mati ve mark s
			K1	K2	S1	S2	S3	S5	S6	V1	V2	V2		
Clinical case presentations	Inter - active	CP checklist							S6	V1	V2		11%	5%
Bedside clinical teaching	BST	Long case			S1	S2	S3	S5				V2	22%	15%
		Short case					S3					V2	11%	7.5%
		Short case					S3					V2	11%	7.5%

Learning Resources

Required Textbooks	<ul style="list-style-type: none"> ○ Bailey and Love text book of surgery 27th edition ○ Browe's Introduction into the Symptoms & Signs of Surgical Disease
Essential References Materials	<ol style="list-style-type: none"> 1. Lecture Notes in General Surgery Ellis, Calne Blackwell Science 2. Oxford Handbook of Surgery Oxford University Press 3. Washington Manual of Surgery Lippincott, Williams and Wilkins
Electronic Materials	Blackboard
Other Learning Materials	Blackboard

Related check lists

Course quality evaluation

After the end of the course, please give your **FEEDBACK** through the following QR code: