

STUDY GUIDE

General Surgery – 1 Module

1202411



Course Coordinators

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Course Identification

1. Credit hours	7
2. Level/year at which this course is offered	4 th year
3. Pre-requisites for this course	Basic sciences

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 Osman	haidermisbah2002@yahoo.com

Actual Learning Hours

No	Activity	Learning Hours
Contact Hours		
1	Lecture	33
2	Laboratory (Skills lab)	14
3	Tutorial	7
4	Clinical bedside teaching(BST)	45
5	Problem based learning (PBL)	10
6	Case presentation(CP)	7
Total		116
Other Learning Hours*		
1	Study	120
2	Assignments	20
3	Library	20
4	Projects/Research Essays/Theses	5
Total		281

Course Objectives

1. Course Description

Reflect, through attitudes, responsible and serious concern to the patient's problems and his/her family, taking into account the moral and cultural characteristics of the society.

Describe patterns of common surgical diseases, in various adult age groups, and recognize urgent problems and emergency and critical conditions in the area.

Take full surgical history, with appropriate sequence and comprehensiveness, and write it as clear as possible.

Carry out the general and systemic examination in the appropriate manner, sequence and comprehensiveness relevant to the surgical problem.

Select the laboratory investigations relevant to the problem of the patient, considering limitations of the patient, the health system and/or hospital routine, and issuing clear directives to the patient on how and where to do these investigations. Use the skills learned to reach a diagnosis or suggest a differential diagnosis of the problem presented

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

Based on the feedback from the students and tutors that are involved in teaching the module, any recommendation and comments will be critically studied in order to incorporate in the curriculum.

2. Course Main Objective

Reflect, through attitudes, responsible and serious concern to the patient's problems and his/her family, taking into account the moral and cultural characteristics of the society.

Describe patterns of common surgical diseases, in various adult age groups, and recognize urgent problems and emergency and critical conditions in the area.

Take full surgical history, with appropriate sequence and comprehensiveness, and write it as clear as possible.

Carry out the general and systemic examination in the appropriate manner, sequence and comprehensiveness relevant to the surgical problem.

Select the laboratory investigations relevant to the problem of the patient, considering limitations of the patient, the health system and/or hospital routine, and issuing clear directives to the patient on how and where to do these investigations. Use the skills learned to reach a diagnosis or suggest a differential diagnosis of the problem presented.

Course Learning Outcomes

CLOs		Aligned-PLOs
1	Knowledge: By the end of this course the student will be able to:	
1.1	Describe the causes, pathogenesis, clinical presentations, investigations, and complications of common surgical diseases.	K2
2	Skills:	
2.1	Take history and perform physical examination for the basic surgery cases	S2
3	Competence:	
3.1	Show the ability to work in a team with respect to all medical staff opinions	C1
3.2	Operate the skill of self-learning	C2
3.3	Interpret the clinical, laboratory and radiological data to reach diagnosis	C3

Course Content

No	List of Topics	Contact Hours
Lectures		33
1	Fluid and electrolyte balance	1
2	Wound Healing And Wound Care	1
3	Body Response To Injury	1
4	Cholelithiasis / Cholecystitis	1
5	Shock & Resuscitation	1
6	Chest Trauma	1
7	Head Trauma	1
8	Obstructive Jaundice	1
9	Benign Esophageal Disorders	1
10	Benign Thyroid Disease	1
11	Principles Of Trauma Management /Triage	1
12	Thyroid Neoplasm & Surgery	1
13	Abdominal Trauma	1
14	Benign Breast Disease	1
15	Pancreatico-Biliary malignancies	1
16	Burn management	1
17	Hernia	1
18	Acute / chronic Pancreatitis	1
19	Oesophageal neoplasm / Barrett's oesophagus	1
20	Peptic Ulcer Disease and perforated peptic ulcer	1
21	Upper GI Bleeding /Gastric cancer	1
22	Diabetic foot	1
23	Acute Appendicitis	1
24	Rectal cancer and prolapsed	1
25	Intestinal Obstruction	1
26	Carcinoma Colon	1
27	Breast Neoplasm	1
28	Scrotal Swellings	1
29	Renal Calculi	1
30	Anal diseases	1
31	Manifestation Of Arterial Diseases	1
32	Benign Skin and Subcutaneous Swellings	1
33	Skin Tumors	1

Skill Laboratory		7
1.	Suturing technique	1
2.	Radiological X-Rays	1
3.	Tracheostomy & ETT	1
4.	Nasogastric tube/ Chest tube	1
5.	Foley's catheter insertion	1
6.	Surgical instruments	1
7.	Proctoscopy/ Sigmoidoscopy	1
Tutorial		7
1	Cervical lymphadenopathy	1
2	Blood products / Transfusion and complications	1
3	Sterilization and disinfection	1
4	Deep vein thrombosis	1
5	Pre-Operative Care	1
6	Surgical Nutrition / TPN	1
7	Post- Operative Care	1
Clinical bedside teaching		45
1.	General History taking	3
2.	History of Pain and swelling	3
3.	General physical examination	3
4.	Abdominal examination	3
5.	Swelling examination	3
6.	Hernia examination	3
7.	Thyroid and neck examination	3
8.	Ulcer examination	3
9.	Vascular examination	3
10	Breast examination	3
11	Head injury examination	3
12	Chest examination	3
13	Diabetic foot examination	3
14	Case of Road traffic examination	3
15	Case discussion of abdominal pain	3
16		
Problem based learning		5
1	Trauma	1
2	Wound infection	1
3	Breast lump	1
4	Acute abdomen	1

5	GI Bleed	1
Case presentation		7
1	Acute appendicitis	1
2	Acute Cholecystitis	1
3	Inguinal Hernia	1
4	Diabetic foot	1
5	Breast lump	1
6	Head Injury (RTA)	1
7	Chest trauma	1
Total		104

Teaching strategies and Assessment Methods for Students

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	Identify the patterns, causes, pathogenesis, clinical presentations, investigations, treatment outlines, and complications of common medical diseases related to surgery	Direct instruction (lectures) Interactive (PBL, Tutorial, CP)	Written exam (MCQs)
2.0	Skills		
2.1	Take history and perform physical examination for the basic surgery cases	Experiential learning (Skill lab, BST)	OSCE Long and short cases clinical examination
3.0	Competence		
3.1	Operate the skill of self-learning	Interactive (PBL, Tutorial, CP)	PBL checklist CP checklist
3.2	Interpret the clinical, laboratory and radiological data to reach diagnosis	Interactive (PBL, Tutorial, CP)	PBL checklist CP checklist
3.3	Show the ability to work in a team with respect to all medical staff opinions	Interactive (PBL, Tutorial, CP)	PBL checklist CP checklist

Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz	5 th	10%
2	Problem based learning checklist	Weekly	5%
3	Case presentations checklist	Weekly	5%
4	OSCE	8 th	10%
5	Written exam (MCQS)	8 th	40%
6	Long case	8 th	15%
7	Short case	8 th	15%
8	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			Competency			% of total contact hours	% of total summative marks
			K1	K2	...	S1	S2	...	C1	C2	...		
Fluid and electrolyte balance	Lecture	Written exams		K2								1%	0-2%
Wound Healing And Wound Care	Lecture	Written exams		K2								1%	0-2%
Body Response To Injury	Lecture	Written exams		K2								1%	0-2%
Cholelithiasis / Cholecystitis	Lecture	Written exams		K2								1%	0-2%
Shock & Resuscitation	Lecture	Written exams		K2								1%	0-2%
Chest Trauma	Lecture	Written exams		K2								1%	0-2%
Head Trauma	Lecture	Written exams		K2								1%	0-2%
Obstructive Jaundice	Lecture	Written exams		K2								1%	0-2%
Benign Esophageal Disorders	Lecture	Written exams		K2								1%	0-2%
Benign Thyroid Disease	Lecture	Written exams		K2								1%	0-2%
Principles Of Trauma Management /Triage	Lecture	Written exams		K2								1%	0-2%
&Thyroid Neoplasm Surgery	Lecture	Written exams		K2								1%	0-2%
Abdominal Trauma	Lecture	Written exams		K2								1%	0-2%
Benign Breast Disease	Lecture	Written exams		K2								1%	0-2%
Pancreatico-Biliary malignancies	Lecture	Written exams		K2								1%	0-2%
Burn management	Lecture	Written exams		K2								1%	0-2%
Hernia	Lecture	Written exams		K2								1%	0-2%

Topics	Teaching strategies	Assessment methods	Knowledge			Skill			Competency			% of total contact hours	% of total summative marks
			K1	K2	...	S1	S2	...	C1	C2	...		
Acute / chronic Pancreatitis	Lecture	Written exams		K2								1%	0-2%
Oesophageal neoplasm / Barrett's oesophagus	Lecture	Written exams		K2								1%	0-2%
Peptic Ulcer Disease and perforated peptic ulcer	Lecture	Written exams		K2								1%	0-2%
Upper GI Bleeding /Gastric cancer	Lecture	Written exams		K2								1%	0-2%
Diabetic foot	Lecture	Written exams		K2								1%	0-2%
Acute Appendicitis	Lecture	Written exams		K2								1%	0-2%
Rectal cancer and prolapsed	Lecture	Written exams		K2								1%	0-2%
Intestinal Obstruction	Lecture	Written exams		K2								1%	0-2%
Carcinoma Colon	Lecture	Written exams		K2								1%	0-2%
Breast Neoplasm	Lecture	Written exams		K2								1%	0-2%
Scrotal Swellings	Lecture	Written exams		K2								1%	0-2%
Renal Calculi	Lecture	Written exams		K2								1%	0-2%
Anal diseases	Lecture	Written exams		K2								1%	0-2%
Manifestation Of Arterial Diseases	Lecture	Written exams		K2								1%	0-2%
Benign Skin and Subcutaneous Swellings	Lecture	Written exams		K2								1%	0-2%
Skin Tumors	Lecture	Written exams		K2								1%	0-2%
Cervical lymphadenopathy	Tutorial	Written exams		K2								1%	0-1%
Blood products / Transfusion and complications	Tutorial	Written exams		K2								1%	0-1%
Sterilization and	Tutorial	Written		K2								1%	0-1%

Topics	Teaching strategies	Assessment methods	Knowledge			Skill			Competency			% of total contact hours	% of total summative marks	
			K1	K2	...	S1	S2	...	C1	C2	...			
disinfection		exams												
Deep vein thrombosis	Tutorial	Written exams		K2								1%	0-1%	
Pre-Operative Care	Tutorial	Written exams		K2								1%	0-1%	
Surgical Nutrition / TPN	Tutorial	Written exams		K2								1%	0-1%	
Post- Operative Care	Tutorial	Written exams		K2								1%	0-1%	
Suturing technique	Skill lab	OSCE					S2					1%	0-1%	
Radiological X-Rays	Skill lab	OSCE								C2		1%	0-3%	
Tracheostomy & ETT	Skill lab	OSCE					S2					1%	0-1%	
Nasogastric tube/ Chest tube	Skill lab	OSCE					S2					1%	0-1%	
Foley's catheter insertion	Skill lab	OSCE					S2					1%	0-1%	
Surgical instruments	Skill lab	OSCE					S2					1%	0-1%	
Proctoscopy/ Sigmoidoscopy	Skill lab	OSCE					S2					1%	0-1%	
Trauma	PBL	PBL check list								C1	C2	C3	1%	1%
Wound infection	PBL	PBL check list								C1	C2	C3	1%	1%
Breast lump	PBL	PBL check list								C1	C2	C3	1%	1%
Acute abdomen	PBL	PBL check list								C1	C2	C3	1%	1%
GI Bleed	PBL	PBL check list								C1	C2	C3	1%	1%
Clinical case presentations	Inter - active	CP checklist									C2	C3	8%	5%
Bedside clinical teaching	BST	Long case					S2				C2		25%	15%
		Short case					S2						10%	7.5%
		Short case					S2						10%	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 Science2. Oxford Handbook of Surgery Oxford University Press3. 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: