

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Diyala

Faculty/Institute: medicine

Scientific Department: surgery

Academic or Professional Program Name: ...Human Medicine

Final Certificate Name: Bachelor of medicine and general surgery

Academic System:...courses first course and second course

Description Preparation Date: 1-2-2024

File Completion Date:1

Signature:

Head of Department Name:

Muqdad Fuad Abdulkareem

Date

Signature:

Scientific Associate: prof.jalil AL-

ezzi

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

1. Program Vision

To obtain the trust, support and accreditation of the College, the University and the scientific institutions of the local and foreign affairs, and to improve the levels of surgical teaching and training.

2. Program Mission

Enhancing the clinical capabilities and skills of students in order to create a generation of qualified graduates who are able to complete their postgraduate studies according to modern concepts.
Improving the scientific level of students and informing them of the latest medical and surgical developments in order to improve the health level. Enhancing the scientific and clinical skills and expertise of postgraduate students to enable them to manage the comprehensive medical care process. Enhancing the research skills of students and faculty

3. Program Objectives

The main aim of the surgery branch is to provide the medical students the theoretical and clinical ability to prepare a medical doctor who has the knowledge and training ability to perform his work in surgical field in hospitals with full interaction in his work and the achievement of what is required of him to serve the patient and the society and the state according to the working conditions and possibilities and the ability to develop himself and his job to improve the performance required of him and aspiring.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

5. Other external influences

Attaching hospital ,library ,internet ,community .doctors syndicate

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	11	36	100%	
College Requirements	11	36	100%	

Department Requirements	11	36		
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
Third The first and second course	SUR317 SUR318	Surgery 1 Surgery 2	theoretical 15 15	practical There is no practical
Fourth The first and second course	SURG403 SURG404	Surgery 1 Surgery 2	45 45	30 30
Fifth	URO501 URO527 RAD503 OPH505 OPH531 ORT509 ORT535 TRA551 ANE553 PLS555	Urosurgery 1 Urosurgery 2 Radiology 2 Ophthalmology 1 Ophthalmology 2 Orthopedics 1 Orthopedics 1 Trauma surgery 1 Anesthesia 1 Plastic surgery 1	15 15 15 15 15 15 15 5 5 5	15 15 30 - 30 30 30 10 10 10
	NUS557 CVS529 ENT513 ENT 514	Neurosurgery 1 Cardiovascular surgery 1 ENT 2 ENT 2	7 8 15 15	15 15 15 15
Sixth	SURG601	Surgery	There is no theory	30 hours per week for 12 weeks, including seminars provided by students

8. Expected learning outcomes of the program

Knowledge

1. The student gets to know the systems of the human body and the function of each part of it
2. To distinguish between normal and abnormal conditions through studying the body's functions
3. . The student learns how to deal with emergency cases of patients
4. 4- To devise appropriate solutions to correct abnormal situations
5. 5- To be able to know the external influences on the health of the individual and society and avoid their harms

Skills

1. Being able to apply the results of the theoretical study practically by dealing with pathological cases
2. Being able to use modern equipment to study the functions of body organs and diagnose pathological conditions
- 3- Being able to conduct scientific studies and research to solve the problems of the individual and society

Ethics

1. Commitment to medical ethics in practicing the profession and in accordance with the values of society
2. Commitment to actively attend the discussion sessions
3. A commitment to respecting the rights of his colleagues to participate in scientific discussions to solve problems.
4. Appreciating the importance of continuous study and updating information to keep pace with scientific development.

9. Teaching and Learning Strategies

- 1 -Theoretical lectures using illustration aids.
- 2 .Practical application of the concepts that have been studied in specialized laboratories and teaching hospitals.
- 3 .Seminars (students are assigned a topic within the curriculum for presentation and discussion).
4. Solving scientific and medical problems by discussing their merits within small groups to reach the correct solution.

10. Evaluation methods

- 1 .Daily theoretical and practical exams.
- 2 .Semester exams (half a first course and half a second course) (and final courses) (theory and practical).
3. Seminars (assigning each student a topic for presentation and discussion).

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Mohammed Mohammud Habash	General medicine and surgery	General surgery			√	
AHMED Mudher khalaf	General medicine and surgery	General surgery			√	
QAYS JAAFER KHALAF	General medicine and surgery	ENT			√	
ALI LAFTA SALMAN	General medicine and surgery	ENT			√	
WALED KHALED MOHAMED	General medicine and surgery	UROLO OGY			√	
MUQDAD FUAD ABDULKAREM	General medicine and surgery	General surgery			√	
QASAQ MAN BAKER	General medicine and surgery	Radiolo gy			√	
ZINAB FASAL KHADUM	General medicine and surgery	Radiolo gy			√	
AMAR NAJM ABOOD	General medicine and surgery	ortho pedic			√	
ALI HAKIM TAWFIQ	General medicine and surgery	Radiolo gy			√	
NAMER FADIL	General medicine and surgery	anatom y			√	

Professional Development

Mentoring new faculty members

1. Active participation in the management of the branch and the requirements of the scientific and administrative committees, examination committees, and others.
2. Commitment to the assignments issued by the Deanship or the University Presidency against teaching staff from committees, seminars, or... Lectures or others and coordinating this with the branch schedule.
- 3- Participation in seminars, workshops and training courses to develop skills

Professional development of faculty members

1. Urging them to follow the educational process and the requirements of modernity in student education, training, and methods for preparing questions And evaluation.
2. Urging them to prepare scientific research and apply for scientific promotions.
3. Participation in scientific seminars and conferences to follow what is new in the science of general surgery and its

12. Acceptance Criterion

1. Admission will be centralized through the Ministry of Higher Education and Scientific Research, based on the grade point average in the sixth grade, after preparing the relevant form electronically.
2. Parallel acceptance channel

13. The most important sources of information about the program

1. A website for the university and college
2. Website of the Ministry of Higher Education and Scientific Research
3. The college library and the central library at the university

14. Program Development Plan

1. Increasing the number of teaching staff.
2. Opening postgraduate studies for master's and Iraqi boards.
3. Pushing towards obtaining precise specialization.
4. More effective participation in conferences, forums, seminars and scientific programs

	TRA551	Orthopedics 1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		Orthopedics 2													
	ANE553	Trauma surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	PLS555	Anesthesia	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	NUS557	Plastic surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	CVS529	Neurosurgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		Cardiovascular surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Sixth level	SURG601	Surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

1. Course Name:

surgery

2. Course Code:

SUR317
SUR318
SURG403
SURG404
ENT513
ENT514
URO501
URO527
RAD503
OPH505
OPH531
ORT509
ORT535
TRA551
ANE553
PLS555
NUS557
CVS529
SURG601

3. Semester / Year:

The third, fourth and fifth stages are courses The first course is 15 weeks and the second course is 15 weeks

4. Description Preparation Date:

1-2-2024

5. Available Attendance Forms:

Theoretical, practical and discussions

6. Number of Credit Hours (Total) / Number of Units (Total)

Third stage surgery/ First course: 15 theoretical hours (1 units) Second course: 15 theoretical hours (1 units) Fourth stage surgery/ First course: 45 hours of theory (3 units) and 30 hours of practical (1 unit) The second course: 45 hours of theory (3 units) and 30 hours of practical (1 unit) Fifth stage surgery / First course: 45 hours of theory (3 units) and 30 hours of practical (1 unit) The second course: 45 theoretical hours (3 units) and 30 practical hours (1 units) The fifth

stage is eyes First course: 15 theoretical hours (1 unit) and 30 practical hours (1 unit) The second course: 15 hours of theory (1 unit) and 30 hours of practical (1 unit) Stage 5 Fractional/ Only one course: 30 theoretical hours (2 units) and 30 practical hours (1 unit) The fifth stage ENT / Only one course: 30 theoretical hours (2 units) and 30 practical hours (1 unit) Sixth stage: 300 practical hours (10 units) + 60 hours of seminars (2 units)

Sixth stage: 300 practical hours (10 units) + 60 hours of seminars (2 units)

7. Course administrator's name (mention all, if more than one name)

Qays jaafer khlaf

Qais@uodiyala.edu.iq

Mohammed Mohammad Habash

habash@uodiyala.edu.iq

8. Course Objectives

- 1-Training students to obtain the scientific skills necessary to work in scientific institutions concerned with pediatrics.
- 2 - Training students to obtain practical skills in using the means, information, skills and laboratories necessary for the diagnosis and treatment of the child.
- 3 -Providing students with the practical field skills necessary to distinguish genetic phenomena such as the presence of beneficial genetic mutations and to benefit from them.
- 4 - Training students to obtain the skills required to work in the specialty of pediatrics.

9. Teaching and Learning Strategies

1-Lectures, computers, plasma screens, modern scientific equipment, clinical tours, educational seminars, audio-visual equipment, discussions, teaching hospitals.
In-person and electronic blended education (via the Classroom platform).

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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17-The structure of the course for theoretical surgery /third academic level / the first course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
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1	1	Fluid balance	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Electrolyte balance	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
3	1	Acid base balance	Principles of surgery	Lecture	Daily exams, half-

					course exams, final course and discussing surgical topics
4	1	Shock	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
5	1	Hemorrhage	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
6	1	Transfusion of blood and blood products	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
7	1	Types of wounds	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
8	1	Wound healing and adverse scars	Principles of surgery	Lecture	Daily exams, half-course exams, final

					course and discussing surgical topics
9	1	Wound infection	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	1	Ulcers, sinuses and fistulas	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
11	1	Tumor terminology	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
12	1	Benign and Malignant tumors	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

13	1	Biopsy	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing
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					surgical topics
14	1	Preoperative care and preparation	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	1	Postoperative care	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

18-The structure of the course for theoretical surgery /third academic level / the second course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Drains	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Metabolic response to trauma	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
3	1	Nutrition in	Principles of	Lecture	Daily

		surgical patient	surgery		exams, half-course exams, final course and discussing surgical topics
4	1	Burn	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
5	1	SIRS and septicemia	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
6	1	Abdominal incisions	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
7	1	Postoperative complications	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

8	1	Surgical audit and Researches	Principles of surgery	Lecture	Daily exams, half-course
					exams, final course and discussing surgical topics
9	1	Opportunistic infection	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	1	Hospital acquired infections	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
11	1	Gangrene	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
12	1	DVT prophylaxis	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

13	1	Sterilization, disinfection and sterile precaution	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
14	1	Lymphatic system diseases	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	1	Venous system diseases	Principles of surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

19-Infrastructure of surgery/ third level

1-Required course books	Bailey and love's short practice of surgery
2- main references (sources)	Schwartz principles of surgery
3- Recommended books and references (scientific journals, reports)	Illustrate principles of surgery
4- Electronic references, websites	e medicine.com

20-The structure of the course for theoretical surgery /fourth academic level / the first course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
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1	3	<ul style="list-style-type: none"> • The vermiform appendix • Anatomy • Microscopic anatomy 	General surgery	Lecture	Daily exams, half-course exams, final course
		<ul style="list-style-type: none"> • , symptoms, signs diagnosis and treatment) • Differential diagnosis of acute appendicitis Acute appendicitis (Pathophysiology • Appendicular mass • Appendicle carcinoid 			and discussing surgical topics
2	3	<ul style="list-style-type: none"> • Anatomy and investigations of stomach and duodenal diseases • Peptic ulcer • Perforated peptic ulcer • Gastritis and duodenitis • Gastric outlet obstruction 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

3	3	<ul style="list-style-type: none"> • Gastric lymphoma • Hypertrophic pyloric stenosis of infancy • Adenocarcinoma of the stomach • Introduction to breast diseases (Anatomy, physiology, congenital abnormalities and investigations) 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
4	3	<ul style="list-style-type: none"> • Mastitis • Aberrations of normal development and 	General surgery	Lecture	Daily exams, half-course exams,
		<ul style="list-style-type: none"> • involution • Phyllodes tumours of the breast • CA breast 			final course and discussing surgical topics
5	3	<ul style="list-style-type: none"> • The gall bladder and the bile ducts anatomy. • functions and investigations of biliary diseases • Gallstones • Acute cholecystitis • CBD stones 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

6	3	<ul style="list-style-type: none"> • Cholangitis • Bile duct stricture • CA gallbladder 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
7	3	<ul style="list-style-type: none"> • Developmental disorders of the salivary glands • Inflammatory disorders of the salivary glands • Sialadenitis • Tumors of the salivary glands 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
8	3	<ul style="list-style-type: none"> • Anatomy and functions of the liver • Investigations of liver diseases 	General surgery	Lecture	Daily exams, half-course exams, final course

					and discussing surgical topics
9	3	<ul style="list-style-type: none"> • amoebic liver abscess • Pyogenic liver abscess • Hepatic adenoma • Hydatid disease of the liver 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	3	<ul style="list-style-type: none"> • Focal nodular hyperplasia of the liver • Liver haemangioma • Liver trauma 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
11	3	<ul style="list-style-type: none"> • Approach to patient with acute abdomen • Approach to patient with abdominal mass 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
12	3	<ul style="list-style-type: none"> • Introduction to abdominal wall hernias • Inguinal hernias 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
13	3	<ul style="list-style-type: none"> • Umbilical hernia • Para umbilical 	General surgery	Lecture	Daily exams,

		<p>hernia</p> <ul style="list-style-type: none"> Femoral hernia 			half-course exams, final course and discussing surgical topics
14	3	<ul style="list-style-type: none"> Incisional hernias Burst abdomen 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	3	<ul style="list-style-type: none"> Introduction to intestinal obstruction (definition, types, complications...) 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

21-The structure of the course for theoretical surgery /fourth academic level / the second course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	3	<ul style="list-style-type: none"> History to reach the diagnosis to different types of intestinal obstruction Investigations used in intestinal obstruction Management of acute intestinal obstruction Neonatal intestinal obstruction 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	3	<ul style="list-style-type: none"> Adhesional intestinal obstruction 	General surgery	Lecture	Daily exams,

		<ul style="list-style-type: none"> • Ileus • Intussusception • Sigmoid volvulus • Pseudo obstruction (Ogilvie's syndrome) • Mesenteric vascular occlusion 			half-course exams, final course and discussing surgical topics
3	3	<ul style="list-style-type: none"> • Anatomy of the esophagus • Physiology of the upper and lower esophageal sphincter • Investigations if esophageal diseases • Hiatus hernias • CA esophagus 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
4	3	<ul style="list-style-type: none"> • Pancreas (Anatomy and investigations of pancreatic diseases) • Pancreatic fistula • Cystic fibrosis of the pancreas 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
5	3	<ul style="list-style-type: none"> • Acute pancreatitis • Chronic pancreatitis 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
6	3	<ul style="list-style-type: none"> • Adenocarcinoma of the exocrine pancreas • Insulinoma • Gastrinoma • VIPoma • Somatostatinoma 	General surgery	Lecture	Daily exams, half-course exams, final course and

					discussing surgical topics
7	3	<ul style="list-style-type: none"> • Anatomy of the anal canal • Symptoms and signs of anal diseases • Investigations of anal diseases 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
8	3	<ul style="list-style-type: none"> • Perianal abscess • Fissure in ano • Fistula in ano 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
9	3	<ul style="list-style-type: none"> • Hemorrhoids • Tumors of the anal canal 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	3	<ul style="list-style-type: none"> • Meckles diverticulum • Small bowel diverticulum • Enterocutaneous fistula • Bowel preparation 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
11	3	<ul style="list-style-type: none"> • Tuberculosis of the bowel • TB of the peritoneum 	General surgery	Lecture	Daily exams, half-course

		<ul style="list-style-type: none"> • Peritonitis and peritoneal abscess • Mesenteric lymphadenitis • Crohn's disease 			exams, final course and discussing surgical topics
12	3	<ul style="list-style-type: none"> • Ulcerative colitis • Hirschsprung's disease • Sigmoid diverticulum 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
13	3	<ul style="list-style-type: none"> • Stomas • angiodysplasia • Adenocarcinoma of the colon • FAP 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
14	3	<ul style="list-style-type: none"> • Introduction to thyroid (anatomy, physiology and investigations) • Hyperthyroidism and thyrotoxicosis • Hypothyroidism 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	3	<ul style="list-style-type: none"> • Retrosternal goiter • Solitary thyroid nodule • Thyroiditis • Neoplasms of the thyroid • Hyperparathyroidism • Con's disease • Pheochromocytoma 	General surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

22-Infrastructure of surgery/ fourth level	
1-Required course books	Bailey and love's short practice of surgery
2- main references (sources)	Schwartz principles of surgery
3- Recommended books and references (scientific journals, reports)	Illustrate principles of surgery
4- Electronic references, websites	e medicine.com

23- The structure of the course for specialized surgeries / fifth academic level / first course					
Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Primary survey and resuscitation of trauma patient	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Secondary survey and management	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
3	1	Initial assessment and shock management in trauma patient	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing

					surgical topics
4	1	Imaging investigations in trauma patient	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
5	1	Crush injuries	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
6	1	Triage	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
7	1	Damage control surgery	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

8	1	Metabolic response to trauma and lines of resuscitation	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
9	1	Head injury <ul style="list-style-type: none"> • PATHOPHYSIOLOGY • Brain metabolism • Cerebral blood flow and auto-regulation • Intracranial pressure and brain herniation • Primary versus secondary brain injury 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	1	<ul style="list-style-type: none"> • Classification of head injury • History taking in head injury • Clinical features • Examination • Glasgow coma score (gcs) 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
11	1	<ul style="list-style-type: none"> • Management of mild head injury • Nice guidelines for computerized tomography (ct) in head injury • Management of mild head injury • Management of moderate to severe head injury 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

12	1	<ul style="list-style-type: none"> • Extradural hematoma • Acute subdural hematoma • Chronic subdural hematoma 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
13	1	<ul style="list-style-type: none"> • Subarachnoid hemorrhage • Cerebral contusions 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
14	1	<ul style="list-style-type: none"> • Raised intracranial pressure 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	1	<ul style="list-style-type: none"> • Hydrocephalus • Cerebral abscess 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

24- The structure of the course for specialized surgeries / fifth academic level / second course					
Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method

1	1	<ul style="list-style-type: none"> • Spinal cord injuries 	specialized surgeries	Lecture	Daily exams, half-course exams, final
					course and discussing surgical topics
2	1	<ul style="list-style-type: none"> • Spontaneous pneumothorax • Tension pneumothorax • Surgical emphysema • Primary spontaneous pneumothorax • Inserting and managing a chest drain 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
3	1	<ul style="list-style-type: none"> • Definitive management of pneumothorax • Pleurectomy. • Pleural abrasion • Chemical pleurodesis • Pleural effusion 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
4	1	<ul style="list-style-type: none"> • Lung cancer 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

5	1	THORACIC INJURY <ul style="list-style-type: none"> • Immediately life threatening • Airway obstruction • Tension pneumothorax • Pericardial tamponed • Open pneumothorax • Massive haemothorax • Flail chest 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
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6	1	Potentially life threatening <ul style="list-style-type: none"> • Aortic injuries • Tracheobronchial injuries • Myocardial contusion • Rupture of diaphragm • Esophageal injuries • Pulmonary contusion 	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
7	1	Mediastinal masses	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
8	1	Deep venous thrombosis Varicosity of the lower limbs	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
9	1	Grafts	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	1	Flaps	specialized surgeries	Lecture	Daily exams, half-course exams, final course and

					discussing surgical topics
11	1	Burns	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
12	1	General anesthesia Induction Maintenance Fluid therapy	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
13	1	Regional and local anesthesia	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
14	1	Complications of anesthesia in general	specialized surgeries	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	1	Ventilatory machine	specialized surgeries	Lecture	Daily exams, half-course

					exams, final course and discussing surgical topics
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25- The structure of the course for Urology / fifth academic level / first course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Urinary symptoms <ul style="list-style-type: none"> • Hematuria • Renal pain • Ureteric colic • Bladder pain • Per-renal pain • Urethral pain 	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Urinary symptoms <ul style="list-style-type: none"> • Altered bladder function • Out flow obstruction 	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
3	1	Investigations of the urinary tract <ol style="list-style-type: none"> 1. Urine <ul style="list-style-type: none"> • Dipsticks impregnated with chemicals <ul style="list-style-type: none"> • <i>Microscopy</i> • Cytological examination • Bacteriological culture <ul style="list-style-type: none"> • Biochemical examination 2. Tests of renal function 	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
4	1	Investigations of the urinary tract	Urology	Lecture	Daily

		<p>(Imaging)</p> <ol style="list-style-type: none"> 1. Plain abdominal radiograph 2. Intravenous urography 3. <i>Retrograde ureteropyelography</i> 4. Antegrade pyelography 5. Urethrography 6. Ultrasonography 7. Computerised tomography 8. Magnetic resonance imaging tomography 9. Endoscopy 			<p>exams, half-course exams, final course and discussing surgical topics</p>
5	1	<p>Congenital abnormalities of the kidneys</p> <ul style="list-style-type: none"> • Absence of one kidney <ul style="list-style-type: none"> • Renal ectopia • Horseshoe kidney • Unilateral fusion • Simple renal cysts 	Urology	Lecture	<p>Daily exams, half-course exams, final course and discussing surgical topics</p>
6	1	<p>Congenital abnormalities of the kidneys</p> <ul style="list-style-type: none"> • Congenital polycystic kidneys • Infantile polycystic disease • Unilateral multicystic disease 	Urology	Lecture	<p>Daily exams, half-course exams, final course and discussing surgical topics</p>
7	1	<p>Congenital abnormalities of the renal pelvis</p>	Urology	Lecture	<p>Daily exams, half-course exams, final course and discussing surgical topics</p>

8	1	Congenital abnormalities of the ureter	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
9	1	Urinary Tract Infections	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
10	1	Hydronephrosis	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
11	1	Renal calculate	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
12	1	Ureteric calculus	Urology	Lecture	Daily exams,

					half-course exams, final course and discussing surgical topics
13	1	Modern methods of stone removal	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
14	1	Renal injury	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
15	1	Urethral catheterization	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics

26- The structure of the course for Urology / fifth academic level / second course					
Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	➤ Benign prostatic hyperplasia	Urology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	➤ Prostate cancer	Urology	Lecture	
3	1	➤ Scrotal Mass	Urology	Lecture	
4	1	➤ Voiding Disorders	Urology	Lecture	
5	1	➤ Urinary Retention	Urology	Lecture	
6	1	➤ Testicular Cancer	Urology	Lecture	
7	1	➤ Renal Failure	Urology	Lecture	
8	1	➤ Obstructive Uropathy	Urology	Lecture	
9	1	➤ Vesicoureteral Reflux	Urology	Lecture	
10	1	➤ Incontinence	Urology	Lecture	
11	1	➤ Sexually Transmitted Diseases	Urology	Lecture	
12	1	➤ Urethral Discharge	Urology	Lecture	
13	1	➤ Urologic Emergencies	Urology	Lecture	
14	1	➤ Kidney Tumors	Urology	Lecture	
15	1	Ambiguous Genitalia	Urology	Lecture	

27- The structure of the course for orthopedics, joints and fractures / fifth level / first course					
Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Fractures	orthopedics	Lecture	Daily exams, half-course
2	1	Treatment of closed fracture	orthopedics	Lecture	
3	1	Treatment of open fractures	orthopedics	Lecture	
4	1	Complications of fractures.	orthopedics	Lecture	
5	1	Nerve injury	orthopedics	Lecture	
6	1	Fractures of the clavicle	orthopedics	Lecture	
7	1	Acromioclavicular joint injuries	orthopedics	Lecture	
8	1	Fractures of the proximal humerus	orthopedics	Lecture	
9	1	Fractured head of radius	orthopedics	Lecture	
10	1	Fractures around the elbow in children	orthopedics	Lecture	
11	1	Separation of the medial	orthopedics	Lecture	

		epicondyle			exams, final course and discussing surgical topics
12	1	Fracture of a single forearm bone	orthopedics	Lecture	
13	1	Colles' fracture	orthopedics	Lecture	
14	1	Hand injuries	orthopedics	Lecture	
15	1	Hand tumor	orthopedics	Lecture	

28- The structure of the course for orthopedics, joints and fractures / fifth level / second course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Injuries of the pelvis	orthopedics	Lecture	Daily exams, half- course exams, final course and discussing surgical topics
2	1	Dislocation of the hip	orthopedics	Lecture	
3	1	Intertrochanteric fractures	orthopedics	Lecture	
4	1	The isolated femoral shaft fracture	orthopedics	Lecture	
5	1	Supracondylar fractures of the femur	orthopedics	Lecture	
6	1	Acute knee ligament injuries	orthopedics	Lecture	
7	1	Rupture of patellar ligament	orthopedics	Lecture	
8	1	Tibial plateau fractures	orthopedics	Lecture	
9	1	Ankle ligament injuries	orthopedics	Lecture	
10	1	Malleolar fractures of the ankle	orthopedics	Lecture	
11	1	Acute haematogenous osteomyelitis	orthopedics	Lecture	
12	1	Osteoarthritis	orthopedics	Lecture	
13	1	Congenital and developmental conditions	orthopedics	Lecture	
14	1	Nerve injuries and repair	orthopedics	Lecture	
15	1	Neoplastic conditions of bone	orthopedics	Lecture	

29-The structure of the course for Ear, Nose and Throat Surgery / fifth level / first course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Surgical anatomy and applied	Ear, Nose	Lecture	

		physiology of the nose paranasal .sines	and Throat Surgery		Daily exams, half-course exams, final course and discussing surgical topics
2	1	Radiology and endoscopy of the nose and paranasal sinuses.	Ear, Nose and Throat Surgery	Lecture	
3	1	Congenital malformation and injuries of the nose and paranasal sinuses.	Ear, Nose and Throat Surgery	Lecture	
4	1	Infection of the nose and paranasal sinuses and their management	Ear, Nose and Throat Surgery	Lecture	
5	1	Nasal allergy and vasomotor rhinitis.	Ear, Nose and Throat Surgery	Lecture	
6	1	Epistaxis.	Ear, Nose and Throat Surgery	Lecture	
7	1	Tumors of the nose and paranasal sinuses.	Ear, Nose and Throat Surgery	Lecture	
8	1	Surgical anatomy and applied physiology of pharynx and esophagus.	Ear, Nose and Throat Surgery	Lecture	
9	1	Inflammation of the mouth and pharynx.	Ear, Nose and Throat Surgery	Lecture	
10	1	Ulcers.	Ear, Nose and Throat Surgery	Lecture	
11	1	Tonsillitis and Adenoid is-Adenoid hyper atrophy.	Ear, Nose and Throat Surgery	Lecture	
12	1	Tonsillitis and Adenoidectomy, indications and complications.	Ear, Nose and Throat Surgery	Lecture	
13	1	Tumors of the nasopharynx and hypopharynx-Dysphagia.	Ear, Nose and Throat Surgery	Lecture	
14	1	Surgical anatomy and applied of the Larynx.	Ear, Nose and Throat Surgery	Lecture	
15	1	Congenital malformations and	Ear, Nose	Lecture	

		injuries of the Larynx.	and Throat Surgery		
30- The structure of the course for Ear, Nose and Throat Surgery / fifth level / second course					
Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Acute and chronic Laryngitis.	Ear, Nose and Throat Surgery	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Hoarseness.	Ear, Nose and Throat Surgery	Lecture	
3	1	Stridor.	Ear, Nose and Throat Surgery	Lecture	
4	1	Tumors of the Larynx.	Ear, Nose and Throat Surgery	Lecture	
5	1	Lump in the Neck.	Ear, Nose and Throat Surgery	Lecture	
6	1	Surgical anatomy of the ear – labyrinth.	Ear, Nose and Throat Surgery	Lecture	
7	1	Physiology of hearing and vestibular system.	Ear, Nose and Throat Surgery	Lecture	
8	1	Hearing impairment and audio logical assessment.	Ear, Nose and Throat Surgery	Lecture	
9	1	Vertigo and neurological assessment	Ear, Nose and Throat Surgery	Lecture	
10	1	Congenital malformation, trauma and neoplasm of the ear	Ear, Nose and Throat Surgery	Lecture	
11	1	Otitis media Acute, chronic and secretory	Ear, Nose and Throat Surgery	Lecture	
12	1	Complications of the middle ear infections	Ear, Nose and Throat	Lecture	

			Surgery		
13	1	Principles of middle ear surgery	Ear, Nose and Throat Surgery	Lecture	
14	1	Otosclerosis Mienier's disease	Ear, Nose and Throat Surgery	Lecture	
15	1	Vestibular neuronitis	Ear, Nose and Throat Surgery	Lecture	

31- The structure of the course for diagnostic radiology/ fifth level / first course					
Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Aims & objectives of The imaging .radiology Basic principles of X- .department ray, ultrasound, radio-nuclide imaging, CT & MRI	diagnostic radiology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Indications, limitations, & contraindications of x-ray, ultrasound, radionuclide imaging, CT & MRI. Contrast medium used in radiology. X-ray hazards & radiation protection.	diagnostic radiology	Lecture	
3	1	Radiological anatomy of the lungs. Investigations in chest diseases. Chest x-ray technique & procedure, interpretation of normal chest x-ray	diagnostic radiology	Lecture	
4	1	Diseases of the chest with normal chest x-ray. Radiological signs of lung disease (Silhouette sign, air space filling, pulmonary collapse, spherical shadows, cavitation, calcification, hilar enlargement, line &	diagnostic radiology	Lecture	

		widespread shadows). Diseases of the pleura.		
5	1	Diseases of the mediastinum. specific lung diseases (pneumonia, Lung abscess, Pulmonary TB, Pulmonary Hydatid, Diseases of the airway, Pulmonary embolism, Bronchogenic carcinoma, Pulmonary metastases, Pulmonary lymphoma, RDS & ARDS, Chest trauma, Radiation pneumonitis, Cystic fibrosis). Diseases of the diaphragm.	diagnostic radiology	Lecture
6	1	Investigations of the cardiovascular system. Radiological evidence of heart disease: (Heart size & shape, evidence of pericardial disease, pulmonary vessels).	diagnostic radiology	Lecture
7	1	Specific heart disease (Heart failure, Valvular heart disease, ischemic heart disease, congenital heart disease). Diseases of the aorta. Dextrocardia.	diagnostic radiology	Lecture
8	1	General considerations. Normal findings in plain abdominal films. Interpretation of abnormal plain abdominal film: (Bowel dilatation, Gas outside bowel lumen, Ascitis, Abdominal calcifications).	diagnostic radiology	Lecture
9	1	Normal radiographic anatomy. Types of contrast study of the GIT Specific radiological terms in GIT diseases.	diagnostic radiology	Lecture
10	1	Diseases of the esophagus.	diagnostic radiology	Lecture
11	1	Diseases of the stomach and small bowel.	diagnostic radiology	Lecture
12	1	Diseases of the large bowel.	diagnostic radiology	Lecture

13	1	Radiological investigations of the biliary system.	diagnostic radiology	Lecture	
14	1	Radiological investigations of the spleen.	diagnostic radiology	Lecture	
15	1	Radiological investigations & diseases of the pancreas.	diagnostic radiology	Lecture	

32- The structure of the course for diagnostic radiology/ fifth level / second course

Week	Hours	Required educational goals	Unit name and/or topic	education method	evaluation method
1	1	Peritoneal cavity & retroperitoneum Diseases of the peritoneum (ascitis, peritoneal tumors, intra-peritoneal abscesses) Investigations of the retro-peritoneum	diagnostic radiology	Lecture	Daily exams, half-course exams, final course and discussing surgical topics
2	1	Retroperitoneum Diseases of the retro-peritoneum (retro-peritoneal lymphadenopathy, disease of the adrenal gland, retro-peritoneal tumors, aortic aneurysm, retro-peritoneal hematoma, retro-peritoneal & psoas abscesses)	diagnostic radiology	Lecture	
3	1	Urinary tract Investigations of the urinary tract Urinary calculi & Nephrocalcinosis. Urinary tract obstruction. Renal parenchymal masses (simple renal cyst, Angiomyolipoma, Renal cell carcinoma) Urothelial tumor.	diagnostic radiology	Lecture	
4	1	Urinary tract (continue) Infection (acute & Emphysematous pyelonephritis, Renal & perinephric abscess, Pyonephrosis, Renal TB, Chronic pyelonephritis).	diagnostic radiology	Lecture	

		Vesico-ureteric reflux. Renal trauma.			
5	1	Urinary tract (continue) Chronic renal failure. Congenital variation of the urinary tract. Diseases of the UB, diseases of the prostate, diseases of the Urethra. Diseases of the Sacrotum & testes.	diagnostic radiology	Lecture	
6	1	Female genital tract Investigations & normal radiographic anatomy. Specific diseases of the female genital tract (ovarian masses, uterine masses, pelvic inflammatory disease, endometriosis) Ultrasound appearance of normal uterine pregnancy. Ectopic pregnancy	diagnostic radiology	Lecture	
7	1	Breast imaging Investigations of breast. Normal radiographic anatomy. Specific diseases of the breast (simple cyst, fibroadenoma, breast carcinoma).	diagnostic radiology	Lecture	
8	1	Radiology of bone diseases Plain radiographic Signs of bone diseases Classification of bone diseases. Radiological assessment of solitary bone lesion. Malignant bone tumors: (Osteosarcoma, Chondrosarcoma, Ewing s sarcoma, Giant cell tumor). Benign tumors tumor like lesion	diagnostic radiology	Lecture	
9	1	Radiology of bone diseases Bone infection (Osteomyelitis, TB). Multiple focal bone lesions (bone metastases & multiple myeloma)	diagnostic radiology	Lecture	

		<p>Generalized decrease in bone density.</p> <p>Generalized increase in bone density.</p> <p>Acromegally.</p> <p>Radiology of bone trauma</p>			
10	1	<p>Radiology of joint diseases</p> <p>Imaging techniques of joint diseases.</p> <p>Plain radiographic Signs of joint diseases</p> <p>Arthritis (rheumatoid arthritis, osteoarthritis, pyogenic arthritis)</p> <p>Avascular necrosis.</p>	diagnostic radiology	Lecture	
11	1	<p>Radiology of the spine</p> <p>Imaging investigations of the spine</p> <p>Anatomical review.</p> <p>Plain radiographic Signs of spinal abnormality.</p>	diagnostic radiology	Lecture	
12	1	<p>Radiology of the spine (continue)</p> <p>Specific diseases of the spine: (Metastases, lymphoma & Myeloma, spinal infection, spinal trauma, degenerative disc disease, Spinal stenosis, Ankylosing spondylitis, Spinal dysraphism, spinal cord compression)</p>	diagnostic radiology	Lecture	
13	1	<p>Skull & brain</p> <p>Imaging investigations of the skull & brain</p> <p>Normal radiographic anatomy of the skull & brain.</p> <p>Specific brain disorders: (brain tumors, stroke, infection, multiple sclerosis)</p> <p>Radiology of head injury</p>	diagnostic radiology	Lecture	
14	1	<p>Sinuses, orbit & neck</p> <p>Imaging techniques & diseases of the para-nasal sinuses.</p> <p>Imaging techniques & diseases of the orbit.</p> <p>Imaging techniques & diseases of</p>	diagnostic radiology	Lecture	

		the salivary glands. Imaging techniques & diseases of the thyroid & para-thyroid gland.		
15	1	<p>Angiography Definition, indications, principles & complications of arteriography. Indications of venography.</p> <p>Specific vascular disorders (Aneurysms, Atheroma, arterio-venous fistula & malformation, Stenosis & Fibromuscular hyperplasia, Thrombosis & Embolism, vascular Tumors)</p> <p>Interventional radiology</p> <ul style="list-style-type: none"> • Vascular interventional procedures. • Percutaneous needle biopsy. • Percutaneous drainage of abscess & fluid collections. • Interventions in urinary obstruction. • Interventions in biliary obstruction. 	diagnostic radiology	Lecture

33-Infrastructure of surgery/ fifth level	
1-Required course books	Bailey and love's short practice of surgery
2- main references (sources)	Schwartz principles of surgery
3- Recommended books and references (scientific journals, reports)	Illustrate principles of surgery
4- Electronic references, websites	e medicine.com

11. Cours Evaluation

Mid- and end-of-course exams.

- Practical, oral and clinical examinations.
- Reports preparation.
- Short daily exams

12. Learning and Teaching Resources

1-Required course books	Bailey and love's short practice of surgery
2- main references (sources)	Schwartz principles of surgery
3- Recommended books and references (scientific journals, reports)	Illustrate principles of surgery
4- Electronic references, websites	e medicine.com