

**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 University**

**Faculty/Institute: College of Medicine**

**Scientific Department: Pathology and Forensic medicine**

**Academic or Professional Program Name: Human Medicine.**

**Final Certificate Name: Bachelor of Medicine and General Surgery**

**Academic System: Courses (first course + second course)**

**Description Preparation Date:**

**2023-2024**

**File Completion Date: 6/2/2024**

**Signature:**

**Head of Department Name:**

**Date:**

**Signature:**

**Scientific Associate Name:**

**Date:**

**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**

Following graduation, our students will be able to work in a multidisciplinary team in health sector to ensure the team's optimal functioning and effective patient outcomes.

### **2. Program Mission**

Our college seeks to get the international accreditation, rise to the global level in terms of the outcome's quality, and graduate medical doctors who are highly effective in patient care, medical education research, and community service.

### **3. Program Objectives**

- Achieving of quality standards and medical accreditation according to IGL derived on the basis of scientific institutional quality standards.
- Graduating medical doctors, with a bachelor's degree in medicine and general surgery, who will be well-prepared to conduct a patient examination, diagnose the disease, and dispense treatment on a scientific and medical basis, advanced clinical, and professional knowledge, skills, and attitudes they need to practice in an ethical manner to provide excellent health services and enable them for long life learning.
- Following graduation, our students will be able to work in a multidisciplinary team in health sector to ensure the team's optimal functioning and effective patient outcomes.
- Preparing doctors who will be able to interact in the workplace and solve urgent problems in response to the needs of the health delivery system/ society and changing circumstances which make them capable of working in Iraq and internationally, as well as pursuing postgraduate study and training in any medical branch.
- Graduating doctors with high skills and knowledge in conducting scientific research in basic, clinical, behavioral, and biomedical fields.
- Encouraging faculty, staff, and students to enhance their technical skills and utilize information and communication technology to convey knowledge, produce scientific research, and create curricula for educational programs.
- Implementing a development program for the faculty and staff.

#### 4. Program Accreditation

#### 5. Other external influences

Teaching hospital, library, internet, community, doctors' syndicate.

#### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	ε	190	%100	
College Requirements	ε	190	%100	
Department Requirements	ε	190	%100	
Summer Training	None	None		
Other	None	None		

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

#### 7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2022-2023/First	ANA102	Medical Terminology	15 hr	None
2023-2024/Third	PAT311	Pathology 1	30 hr	30 hr
2023-2024/Fourth	PATH407 PATHε.λ	Pathology 1	30 hr	30 hr
2023-2024/Fourth	FMED409 FMED410	Forensic medicine	30 hr	30 hr

## 8. Expected learning outcomes of the program

### Knowledge

1. To introduce the student to the diseases of the human body
2. The effects of the disease on every part of the body.
3. Differentiating between normal and abnormal conditions by studying General diseases and identifying them clinically and histologically.
4. Learn about forensic science
5. How to deal with forensic cases received by health institutions.
6. How to write medical reports on the living and the dead.
7. How to write different death certificates and their importance.
8. Get acquainted with the rest of the relevant forensic sciences.
9. Encouraging students to engage in this rare specialty in the future

### Skills

- 1- Avoid making mistakes when writing forensic medical reports.
- 2 -Knowing how and safely sending forensic medical cases to the forensic medicine office when living and dead
- 3-Knowing the legal methods when receiving forensic medical cases from neighborhoods received to medical institutions.
- 4- The correct methods for diagnosing general diseases of humans

### Ethics

- 1 .Commitment to medical ethics in practicing the profession and following the values of society.
- 2 .Commitment to actively attend the seminars
- 3 .Commitment to respect 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 illustrations
- 2 .Practical application of the concepts 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.
5. In-person and electronic blended learning via the e-learning platform (Classroom).

## 10. Evaluation methods

- 1 .Daily exams (theoretical and practical)
- 2 .Mid-course exams and end-of-course exams
3. Seminars and weekly seminars

## 11. Faculty

### Faculty Members

Academic Rank	Specialization		Special Requirements (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
1. Assis .Prof.dr.Mustafa Ghani	Dentist	PHD of oral pathology			√	None
2. Assis .Prof.dr.Zahraa Najah	Medicine and General Surgery	Board of hematology			√	None
3. Assis .Prof.dr.Thura Abbas	Medicine and General Surgery	Board of histopathology			√	None
4. Assistant lec.Mohamed Sabaa	Medicine and General Surgery	Master of pathology			√	None
5. Lec. Halaa Yassin	Science	Master of animal			√	None
6. Lec.Maysaa Ghani	Veterinary medicine	Master of public health			√	None
7. Assis .Prof.Fatima Kadhim	Science	physiology			√	None
8. Assis.lec.Eman Salman Khames	Science	PHD of parasitology			√	None
9. Assis.lec.Rusul kareem Ismail Alagidie	Physical science	PHD of Physical science			√	None

10. Lec.Dr.Baraa Hassan Latief	Chemical science	PHD of Chemical science			√	None
11. Assistant lec.Rahma Mohammed Abbas	Science	Master of microbiology			√	None
12. Assis.lec.Manar Ibrahim Hasan	Science	Master of microbiology			√	None
13. Assis.lec.Mohammed jasim mohammed	Chemical science	Master of Biochemical			√	None
14. Assis.lec.Noor Adnan Hasan	Science	Master of microbiology			√	None
15. Assis.lec.Hashim abed abass	Science	Master of microbiology			√	None
16. Assis.lec.Marwa Mansour hussein	Science	Master of microbiology			√	None
17. Assis.lec.Mariam Sami Abdulazeez	Science	Master of microbiology			√	None
18. Assis.lec.Hiba Mohammed Jasim Al- darraji	Science	Master of microbiology			√	None
19. Assis.lec.Wisam Faisal Wadi	Science	Master of parasitology			√	None
20. Assis.lec. Lina ali hasballaha	Science	Master of microbiology			√	None

### Professional Development

#### Mentoring new faculty members

Introductory seminars and symposia for new faculty members with periodic meetings to introduce them to the work with daily guidance and continuous follow up along with advising and instructing them.

#### Professional development of faculty members

Continuous learning by searching for developments using the library and the Internet, in addition to attending seminars and specialized scientific symposia, along with active attendance in teaching hospitals to hone skills.

### 12. Acceptance Criterion

The admission is centralized through the Ministry of Higher Education and Scientific Research, based on the student's score in the twelfth grade (scientific branch) after preparing the online form for that.

### 13. The most important sources of information about the program

University and college website, in addition to website of the Ministry of Higher Education and Scientific Research, along with college library and university's central library.

#### 14. **Program Development Plan**

- Developing the scientific and administrative staff in the college through annual evaluation files that reveal strengths and weaknesses.
- Carrying out evaluation studies related to developing and improving the performance of senior leaders, faculty members and staff working in the college.
- Propose strategies, plans and operational policies to ensure quality and reliability.
- Develop guidelines for methods of applying quality and academic accreditation in order to reach the best.
- Developing detailed data and statistics about the college, its objectives, departments, activities and future plans to be accomplished.
- Providing advice and guidance on what the institution should do in order to improve for the best in full compliance with accreditation standards.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024/First	<b>ANA102</b>	Medical Terminology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2023-2024/Third	<b>PAT311</b>	Pathology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2023-2024/Fourth	<b>PATH408</b> <b>PATH407</b>	Pathology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2023-2024/Fourth	<b>FMED409</b> <b>FMED410</b>	Forensic Medicine	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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



## Course Description Form

<b>1. Course Name:</b>
Medical Terminology
<b>2. Course Code:</b>
ANA102
<b>3. Semester / Year:</b>
2023-2024
<b>4. Description Preparation Date:</b>
6/2/2024
<b>5. Available Attendance Forms:</b>
Mandatory attendance
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
Total number of hours : 30 hrs Number of Units :15 units
<b>7. Course administrator's name</b>
Name: Maysaa Ghani Taher Email: <a href="mailto:M_ghany2011@yahoo.com">M_ghany2011@yahoo.com</a>
<b>8. Course Objectives</b>
Acquaintance with medical terms, which facilitates their use in the primary and higher school years .....
<b>9. Teaching and Learning Strategies</b>
1..Theoretical lectures using illustrations 2.Seminars (students are assigned a topic within the curriculum for presentation and discussion) 3.In-person and electronic blended learning via the e-learning platform (Classroom). 4.Theoretical lectures using illustrations 5.Seminars (students are assigned a topic within the curriculum for presentation and discussion) 6.In-person and electronic blended learning via the e-learning platform (Classroom).

**10. The structure of the course for theoretical medical terminology  
/ first academic level / the first course**

<b>Wee k</b>	<b>hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>education method</b>	<b>evaluation method</b>
1	1	Orientation of medical terminology	Medical Terminology	lecture	exam
2	1	Objectives of medical terminology	Medical Terminology	lecture	exam
3	1	Term of position and colors	Medical Terminology	lecture	exam
4	1	Term of numbers	Medical Terminology	lecture	exam
5	1	Term of negatives	Medical Terminology	lecture	exam
6	1	Term of skin disorder	Medical Terminology	lecture	exam
7	1	Term of musculoskeletal disorder	Medical Terminology	lecture	exam
8	1	Term of cardiovascular disorder (part 1)	Medical Terminology	lecture	exam
9	1	Term of cardiovascular disorder (part 2)	Medical Terminology	lecture	exam
10	1	Term of blood and blood formation organs	Medical Terminology	lecture	exam
11	1	Term of blood and blood formation organs	Medical Terminology	lecture	exam
12	1	Term of respiratory disorder	Medical Terminology	lecture	Exam
13	1	Condition general	Medical Terminology	exam	lecture
14	1	Seminar	Medical Terminology	exam	lecture
15	1	Exam	Medical Terminology	exam	lecture

**15- The structure of the course for theoretical medical terminology / first academic level / the second course**

<b>Week</b>	<b>hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>education method</b>	<b>evaluation method</b>
1	1	Digestive disorders	Medical Terminology	lecture	exam
2	1	Urogenetal disorder	Medical Terminology	lecture	exam
3	1	Gynecological disorders	Medical Terminology	lecture	exam
4	1	Obstetrical disorders	Medical Terminology	lecture	exam
5	1	Fetal neonatal disorder	Medical Terminology	lecture	exam
6	1	Endocrine disorder	Medical Terminology	lecture	exam
7	1	Endocrine disorder	Medical Terminology	lecture	exam
8	1	Disorders of sense	Medical Terminology	lecture	exam
9	1	Disorders of vision	Medical Terminology	lecture	exam
10	1	Disorder of hearing	Medical Terminology	lecture	exam
11	1	Diagnostic disorders	Medical Terminology	lecture	exam
12	1	Symptomatic disorder	Medical Terminology	lecture	exam
13	1	Symptomatic disorder	Medical Terminology	lecture	exam
14	1	Seminar	Medical Terminology	exam	lecture
15	1	Exam	Medical Terminology	exam	lecture

**\*\* There is no practical in medical terminology second course**



<b>11. Cours Evaluation</b>	
1- Mid-course and final exams. 2- Pop quizzes.	
<b>12. Learning and Teaching Resources</b>	
<b>1-Required course books</b>	<b>Medical Terminology</b>
<b>2- main references (sources)</b>	Medical Terminology: Latin and Greek Origin with Arabic and <b>English Explanations</b>
<b>3- Recommended books and references (scientific journals, reports)</b>	Prefixes denoting numbers Medical Terminology Noun <b>Suffixes</b>
<b>4- Electronic references, websites</b>	<a href="https://globalrph.com/medterm/r/">https://globalrph.com/medterm/r/</a> <a href="https://aimseducation.edu/blog/all-essential-medical-terms">https://aimseducation.edu/blog/all-essential-medical-terms</a>

<b>1. Course Name:</b>
<b>General pathology</b>
<b>2. Course Code:</b>
<b>PAT311</b>
<b>3. Semester / Year:</b>
<b>2023-2024</b>
<b>4. Description Preparation Date:</b>
<b>6/2/2024</b>
<b>5. Available Attendance Forms:</b>
<b>Mandatory attendance</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
<b>Total number of hours : 60 hrs</b> <b>Number of Units :60 units</b>
<b>7. Course administrator's name</b>
Name: Mustafa ghani      Email : <a href="mailto:mustafa.gheni.taher@gmail.com">mustafa.gheni.taher@gmail.com</a> :  Zahraa Najah      Email: <a href="mailto:Dr.zahraa_najah@yahoo.com">Dr.zahraa_najah@yahoo.com</a>  Mohamed sabaa      Email: <a href="mailto:mohamedsabaa1977832@gmail.com">mohamedsabaa1977832@gmail.com</a>
<b>8. Course Objectives</b>
<ol style="list-style-type: none"> <li>1. To introduce the student to the diseases of the human body</li> <li>2. The effects of the disease on every part of the body.</li> <li>3. Differentiating between normal and abnormal conditions by studying general diseases and identifying them clinically and histologically</li> </ol>
<b>9. Teaching and Learning Strategies</b>
<ol style="list-style-type: none"> <li>1. Theoretical lectures using the data show to display the various medical images.</li> <li>2. .Practical application of the concepts that have been studied in specialized laboratories</li> <li>3. Seminars (students are assigned a topic within the curriculum for presentation and discussion)</li> <li>4. Field visits to the forensic medicine department to learn how to examine the living and dissection of the dead.</li> <li>5. In-person and electronic blended education via e-learning platforms (Classroom).</li> </ol>

**10. The structure of the course for theoretical General pathology /  
third academic level / first course**

<b>Week</b>	<b>hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>Educationn method</b>	<b>Evaluatio nmethod</b>
1	2	Introduction	General pathology	lecture	exam
2	2	Cell injury	General pathology	lecture	exam
3	2	Necrosis	General pathology	lecture	exam
4	2	Degeneration	General pathology	lecture	exam
5	2	Cellular adaption	General pathology	lecture	exam
6	2	Calcification	General pathology	lecture	exam
7	2	Healing and repair	General pathology	lecture	exam
8	2	Bone fracture	General pathology	lecture	exam
9	2	Acute and chronic inflammation	General pathology	lecture	exam
10	2	Neoplasm	General pathology	lecture	exam
11	2	Differentiation and anaplasia	General pathology	lecture	exam
12	2	Preinvasivemalignancy	General pathology	lecture	exam
13	2	Hemodynamicdisorder edema	General pathology	lecture	exam
14	2	Hemorrhage and thrombosis	General pathology	lecture	exam
15	2	Embolism and infraction	General pathology	lecture	exam

<b>11.The structure of the course for practical General pathology /third academic level /first course</b>					
<b>Week</b>	<b>hours</b>	<b>Required education goals</b>	<b>Unit name and/or topic</b>	<b>education method</b>	<b>evaluation method</b>
1	2	Introduction	General pathology	Pathology laboratory	exam/lab
2	2	Cell injury	General pathology	Pathology laboratory	exam/lab
3	2	Necrosis	General pathology	Pathology laboratory	exam/lab
4	2	Degeneration	General pathology	Pathology laboratory	exam/lab
5	2	Cellular adaption	General pathology	Pathology laboratory	exam/lab
6	2	Calcification	General pathology	Pathology laboratory	exam/lab
7	2	Healing and repair	General pathology	Pathology laboratory	exam/lab
8	2	Bone fracture	General pathology	Pathology laboratory	exam/lab
9	2	Acute and chronic inflammation	General pathology	Pathology laboratory	exam/lab
10	2	Neoplasm	General pathology	Pathology laboratory	exam/lab
11	2	Differentiation and anaplasia	General pathology	Pathology laboratory	exam/lab
12	2	Preinvasive malignancy	General pathology	Pathology laboratory	exam/lab
13	2	Hemodynamic disorder edema	General pathology	Pathology laboratory	exam/lab
14	2	Hemorrhage and thrombosis	General pathology	Pathology laboratory	exam/lab
15	2	Embolism and infraction	General pathology	Pathology laboratory	exam/lab

**12. The structure of the course for theoretical General pathology / third academic level / the second course**

<b>Week</b>	<b>hours</b>	<b>Required educationalgoals</b>	<b>Unit name and/or topic</b>	<b>Educationaln method</b>	<b>Evaluation method</b>
1	2	Hematopoiesis	General pathology	lecture	exam
2	2	Anemia : classification	General pathology	lecture	exam
3	2	Leukemia : classification	General pathology	lecture	exam
4	2	Myeloproliferative disorder	General pathology	lecture	exam
5	2	Coagulation disorder	General pathology	lecture	exam
6	2	General pathology of infectious disease	General pathology	lecture	exam
7	2	General pathology of bacterial infections	General pathology	lecture	exam
8	2	General pathology of viral infections'	General pathology	lecture	exam
9	2	General pathology of parasitic and fungalinfections	General pathology	lecture	exam
10	2	Sexually transmitted disease	General pathology	lecture	exam
11	2	Classification of genetic Disease	General pathology	lecture	exam
12	2	Single gene disease	General pathology	lecture	exam
13	2	Immunopathology	General pathology	lecture	exam
14	2	Immunodeficiency	General pathology	lecture	exam
15	2	Autoimmune disease, - Transfusion medicine	General pathology	lecture	exam

**13. The structure of the course for practical General pathology /third academic level /the second course**

<b>Week</b>	<b>hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>education method</b>	<b>evaluation method</b>
1	2	Hematopoiesis	General pathology	Pathology laboratory	exam/lab
2	2	Anemia : classification	General pathology	Pathology laboratory	exam/lab
3	2	Leukemia : classification	General pathology	Pathology laboratory	exam/lab
4	2	Myeloproliferative disorder	General pathology	Pathology laboratory	exam/lab
5	2	Coagulation disorder	General pathology	Pathology laboratory	exam/lab
6	2	General pathology of infectious disease	General pathology	Pathology laboratory	exam/lab
7	2	General pathology of bacterial infections	General pathology	Pathology laboratory	exam/lab
8	2	General pathology of viral infections'	General pathology	Pathology laboratory	exam/lab
9	2	General pathology of parasitic and fungal infections	General pathology	Pathology laboratory	exam/lab
10	2	Sexual transmitted disease	General pathology	Pathology laboratory	exam/lab
11	2	Classification of genetic Disease	General pathology	Pathology laboratory	exam/lab
12	2	Single gene disease	General pathology	Pathology laboratory	exam/lab
13	2	Immunopathology	General pathology	Pathology laboratory	exam/lab
14	2	Immunodeficiency	General pathology	Pathology laboratory	exam/lab
15	2	Autoimmune disease, - Transfusion medicine	General pathology	Pathology laboratory	exam/lab

## 14. Cours Evaluation

1. Mid-course and final exams.
2. 2- Pop quizzes.
3. 4- Oral, practical and clinical examinations.
4. 5- Reports.

## 15. Infrastructure of general pathology

1-Required course books	Robbins Basic Pathology Hoffbrand's Essential Haematology
2- main references (sources)	Robbins and Cotran reviews of Pathology Rapid Review Pathology by Edward F. Goljan Robbins and Cotran Review of Pathology by Klatt and Kumar Hoffbrand's Essential Haematology
3- Recommended books and references (scientific journals, reports)	The American Journal of pathology Wiley, <i>The Journal of Pathology</i>
4- Electronic references, websites	<a href="https://webpath.med.utah.edu/GENERAL.html">https://webpath.med.utah.edu/GENERAL.html</a> <a href="https://diagnosticpathology.biomedcentral.com/">https://diagnosticpathology.biomedcentral.com/</a>

<b>1. Course Name:</b>	<b>Histopathology</b>
<b>2. Course Code:</b>	<b>PATH408 PATH407</b>
<b>3. Semester / Year:</b>	<b>2023-2024</b>
<b>4. Description Preparation Date:</b>	<b>6/2/2024</b>
<b>5. Available Attendance Forms:</b>	<b>Mandatory attendance</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	<b>Total number of hours : 60 hrs Number of Units :60 units</b>
<b>7. Course administrator's name (mention all, if more than one name)</b>	<b>Name: Thura abbas      Email: <a href="mailto:Thura.abbas.ib@gmail.com">Thura.abbas.ib@gmail.com</a>  Mohamed sabaa      Email: <a href="mailto:mohamedsabaa1977832@gmail.com">mohamedsabaa1977832@gmail.com</a></b>
<b>8. Course Objectives</b>	<ul style="list-style-type: none"> <li>4. To introduce the student to the diseases of the human body</li> <li>5. The effects of the disease on every part of the body.</li> <li>6. Differentiating between normal and abnormal conditions by studying general diseases and identifying them clinically and histologically</li> </ul>
<b>9. Teaching and Learning Strategies</b>	<ul style="list-style-type: none"> <li>6. Theoretical lectures using the data show to display the various medical images.</li> <li>7. .Practical application of the concepts that have been studied in specialized laboratories</li> <li>8. Seminars (students are assigned a topic within the curriculum for presentation and discussion)</li> <li>9. Field visits to the forensic medicine department to learn how to examine the living and dissection of the dead.</li> <li>10. In-person and electronic blended education via e-learning platforms (Classroom).</li> </ul>



**10. The structure of the course for theoretical histopathology / fourth academic level /**

**first course**

<b>Week</b>	<b>hours</b>	<b>Required educationalgoals</b>	<b>Unit name and/or topic</b>	<b>Educationn method</b>	<b>Evaluatio nmethod</b>
1	2	Gastrointestinal pathology ,oral cavity oropharynx, and salivary glands	Histopathology	lecture	exam
2	2	Esophagus pathology ,stomach, gastritis	Histopathology	lecture	exam
3	2	Tumors of stomach	Histopathology	lecture	exam
4	2	Duodenal peptic ulcer ,intestinal tumors	Histopathology	lecture	exam
5	2	Liver pathology,patterns of hepaticinjury	Histopathology	lecture	exam
6	2	Pathogenesis of liver cirrhosis, alcoholic liver disease	Histopathology	lecture	exam
7	2	Breast anatomy and histology ,pathological classification of breastdisease	Histopathology	lecture	exam
8	2	Who pathological classification of breast tumors	Histopathology	lecture	exam
9	2	The male breast	Histopathology	lecture	exam
10	2	diseases of female genital system, malignant tumors	Histopathology	lecture	exam
11	2	Endometrial tumors,classification of ovarian tumors	Histopathology	lecture	exam
12	2	Pathology of male genital tract	Histopathology	lecture	exam
13	2	Diseases of kidney andurinary tract, nephritis, haematuria .	Histopathology	lecture	exam
14	2	Renal changes inhypertension UTI	Histopathology	lecture	exam
15	2	Tuberculosis in kidney ,renal tumors	Histopathology	lecture	exam

**11. The structure of the course for practical histopathology /fourth academic level / firstcourse**

<b>Week</b>	<b>Hours</b>	<b>Required educationalgoals</b>	<b>Unit name and/or topic</b>	<b>Educationmethod</b>	<b>Evaluation method</b>
1	2	Gastrointestinal pathology ,oral cavityoropharynx, and salivary glands	Histopathology	Pathology laboratory	exam/lab
2	2	Esophagus pathology ,stomach, gastritis	Histopathology	Pathology laboratory	exam/lab
3	2	Tumors of stomach	Histopathology	Pathology laboratory	exam/lab
4	2	Duodenal peptic ulcer ,intestinal tumors	Histopathology	Pathology laboratory	exam/lab
5	2	Liver pathology,patterns of hepaticinjury	Histopathology	Pathology laboratory	exam/lab
6	2	Pathogenesis of liver cirrhosis, alcoholicliver disease	Histopathology	Pathologylaboratory	exam/lab
7	2	Breast anatomy and histology ,pathologicalclassification of breastdisease	Histopathology	Pathology laboratory	exam/lab
8	2	Who pathological classification of breast tumors	Histopathology	Pathology laboratory	exam/lab
9	2	The male breast	Histopathology	Pathology laboratory	exam/lab
10	2	diseases of female genital system, malignant tumors	Histopathology	Pathology laboratory	exam/lab
11	2	Endometrial tumors classification of ovarian tumors	Histopathology	Pathology laboratory	exam/lab
12	2	Pathology of male genital tract	Histopathology	Pathology laboratory	exam/lab
13	2	Diseases of kidney andurinary tract, nephritis, hematuria	Histopathology	Pathology laboratory	exam/lab
14	2	Renal changes in hypertension UTI	Histopathology	Pathology laboratory	exam/lab
15	2	Tuberculosis in kidney ,renal tumors	Histopathology	Pathology laboratory	exam/lab

**12. The structure of the course for theoretical histopathology / fourth academic level / second course**

<b>Week</b>	<b>hours</b>	<b>Required educationalgoals</b>	<b>Unit name and/or topic</b>	<b>Educationn method</b>	<b>Evaluation method</b>
1	2	Bone pathology	Histopathology	lecture	exam
2	2	Diseases of blood andlymphatic vessels ,atherosclerosis ,hypertension	Histopathology	lecture	exam
3	2	Inflammation diseasesof blood vessels	Histopathology	lecture	exam
4	2	Ischemic heart diseases	Histopathology	lecture	exam
5	2	Cardiomyopathy	Histopathology	lecture	exam
6	2	Congenital heartdiseases	Histopathology	lecture	exam
7	2	Respiratory system,bronchitis	Histopathology	lecture	exam
8	2	Pneumonia	Histopathology	lecture	exam
9	2	Occupational lungdiseases	Histopathology	lecture	exam
10	2	The pleura	Histopathology	lecture	exam
11	2	Pathology of endocrinesystem, thyroid gland	Histopathology	lecture	exam
12	2	Thyroiditis, adrenalgland	Histopathology	lecture	exam
13	2	parathyroid gland	Histopathology	lecture	exam
14	2	Diseases of the skin	Histopathology	lecture	exam
15	2	Diseases of nervoussystem	Histopathology	lecture	exam

**13.The structure of the course for practical histopathology/fourth academic level /second course**

<b>Week</b>	<b>hours</b>	<b>Required educationalgoals</b>	<b>Unit name and/or topic</b>	<b>Education method</b>	<b>Evaluation method</b>
1	2	Bone pathology	histopathology	Pathology laboratory	exam/lab
2	2	Diseases of blood andlymphatic vessels ,atherosclerosis ,hypertension	histopathology	Pathology laboratory	exam/lab
3	2	Inflammation diseases ofblood vessels	histopathology	Pathology laboratory	exam/lab
4	2	Ischemic heart diseases	histopathology	Pathology laboratory	exam/lab
5	2	Cardiomyopathy	histopathology	Pathology laboratory	exam/lab
6	2	Congenital heart diseases	histopathology	Pathology laboratory	exam/lab
7	2	Respiratory system, bronchitis	histopathology	Pathologylaboratory	exam/lab
8	2	Pneumonia	histopathology	Pathology laboratory	exam/lab
9	2	Occupational lung diseases	histopathology	Pathology laboratory	exam/lab
10	2	The pleura	histopathology	Pathology laboratory	exam/lab
11	2	Pathology of endocrine system, thyroid gland	histopathology	Pathology laboratory	exam/lab
12	2	Thyroiditis, adrenalgland	histopathology	Pathology laboratory	exam/lab
13	2	parathyroid gland	histopathology	Pathology laboratory	exam/lab
14	2	Diseases of the skin	histopathology	Pathology laboratory	exam/lab
15	2	Diseases of nervous system	histopathology	Pathology laboratory	exam/lab

## 14. Cours Evaluation

5. Mid-course and final exams.
6. 2- Pop quizzes.
7. 4- Oral, practical and clinical examinations.
8. 5- Reports.

## 15. Infrastructure of histopathology

1-Required course books	Robbins and Cotran reviews ofPathology
2- main references (sources)	Rosai and Ackerman surgicalPathology  Rapid Review Pathology by Edward F. Goljan  Robbins and Cotran Review ofPathology by Klatt and Kumar
3- Recommended books and references (scientific journals, reports)	The American Journal of pathology  Pathology outlines
4- Electronic references, websites	<a href="https://webpath.med.utah.edu/GENERAL.html">https://webpath.med.utah.edu/GENERAL.html</a>  <a href="https://diagnosticpathology.biomedcentral.com/">https://diagnosticpathology.biomedcentral.com/</a>

<b>1. Course Name:</b>	<b>Forensic medicine</b>
<b>2. Course Code:</b>	<b>FMED409 FMED410</b>
<b>3. Semester / Year:</b>	<b>2023-2024</b>
<b>4. Description Preparation Date:</b>	<b>6/2/2024</b>
<b>5. Available Attendance Forms:</b>	<b>Mandatory attendance</b>
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	<b>Total number of hours : 60 hrs Number of Units :60 units</b>
<b>7. Course administrator's name (mention all, if more than one name)</b>	<b>Name: Mohamed sabaa    Email: <a href="mailto:mohamedsabaa1977832@gmail.com">mohamedsabaa1977832@gmail.com</a></b>
<b>8. Course Objectives</b>	<ol style="list-style-type: none"> <li>1. Learn about forensic science</li> <li>2. How to deal with forensic cases received by health institutions.</li> <li>3. How to write medical reports on the living and the dead.</li> <li>4. How to write different death certificates and their importance.</li> <li>5. Get acquainted with the rest of the relevant forensic sciences.</li> <li>6. Encouraging students to engage in this rare specialty in the future</li> </ol>
<b>9. Teaching and Learning Strategies</b>	<ol style="list-style-type: none"> <li>1. Theoretical lectures using the data show to display the various medical images.</li> <li>2. .Practical application of the concepts that have been studied in specialized laboratories</li> <li>3. Seminars (students are assigned a topic within the curriculum for presentation and discussion)</li> <li>4. Field visits to the forensic medicine department to learn how to examine the living and dissection of the dead.</li> <li>5. In-person and electronic blended education via e-learning platforms (Classroom).</li> </ol>

**10. The structure of the course for theoretical forensic medicine / fourth academic level / first course**

<b>Week</b>	<b>Hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>Education method</b>	<b>Evaluative method</b>
1	2	Definition of death and signs of denial and emphatic death	forensic medicine	lecture	exam
2	2	Suspended life or apparent death, death spots or bloody regression	forensic medicine	lecture	exam
3	2	Dead tissue granulation	forensic medicine	lecture	exam
4	2	Decomposition, roles or stages of decomposition, cirrhosis, embalming	forensic medicine	lecture	exam
5	2	Wounds, the mechanism or mechanism of the occurrence of wounds, classification of wounds, bruises, types of traumatic injuries	forensic medicine	lecture	exam
6	2	Acute wounds, stab wounds, puncture wounds, wound complications	forensic medicine	lecture	exam
7	2	Forensic medical reports	forensic medicine	lecture	exam
8	2	seminal spots	forensic medicine	lecture	exam
9	2	miscarriage	forensic medicine	lecture	exam
10	2	Asphyxia and its types, roles of violent suffocation, signs of violent suffocation, classification of cases of mechanical suffocation	forensic medicine	lecture	exam
11	2	Self-mutilation and its signs Stinging and how it occurs	forensic medicine	lecture	exam
12	2	recognition	forensic medicine	lecture	exam
13	2	sexual assaults	forensic medicine	lecture	exam
14	2	blood spots	forensic medicine	lecture	exam
15	2	salivary spots	forensic medicine	lecture	exam

<b>11. The structure of the course for practical forensic medicine / fourth academic level / first course</b>					
<b>Week</b>	<b>Hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>Education method</b>	<b>evaluation method</b>
1	2	Definition of death and signs of denial and emphatic death	forensic medicine	Forensic medicine laboratory	exam/lab
2	2	Suspended life or apparent death, death spots or bloody regression	forensic medicine	forensic medicine laboratory	exam/lab
3	2	Dead tic granulation	forensic medicine	Forensic medicine laboratory	exam/lab
4	2	Decomposition, roles or stages of decomposition, cirrhosis, embalming	forensic medicine	Forensic medicine laboratory	exam/lab
5	2	Wounds, the mechanism or mechanism of the occurrence of wounds, classification of wounds, bruises, types of traumatic injuries	forensic medicine	Forensic medicine laboratory	exam/lab
6	2	Acute wounds, stab wounds, puncture wounds, wound complications	forensic medicine	forensic medicine laboratory	exam/lab
7	2	Forensic medical reports	forensic medicine	Forensic medicine laboratory	exam/lab
8	2	seminal spots	forensic medicine	Forensic medicine laboratory	exam/lab
9	2	miscarriage	forensic medicine	Forensic medicine laboratory	exam/lab
10	2	Asphyxia and its types, roles of violent suffocation, signs of violent suffocation, classification of cases of mechanical suffocation	forensic medicine	forensic medicine laboratory	exam/lab
11	2	Self-mutilation and its signs Stinging and how it occurs	forensic medicine	forensic medicine laboratory	exam/lab
12	2	recognition	forensic medicine	forensic medicine laboratory	exam/lab



13	2	sexual assaults	forensic medicine	Forensic medicine laboratory	exam/lab
14	2	blood spots	forensic medicine	Forensic medicine laboratory	exam/lab
15	2	salivary spots	forensic medicine	Forensic medicine laboratory	exam/lab

**12. The structure of the course for theoretical forensic medicine / fourth academic level / second course**

<b>Week</b>	<b>hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>Education method</b>	<b>Evaluative method</b>
1	2	The dead newborn and the killing of the child's temporal tortured meaning	forensic medicine	lecture	exam
2	2	Criminal Forensic medicine	forensic medicine	lecture	exam
3	2	Writing medical and forensic reports	forensic medicine	lecture	exam
4	2	Birth and death certificates	forensic medicine	lecture	exam
5	2	toxicology- Introduction to poisons and their diagnosis	forensic medicine	lecture	Exam
6	2	Eating toxins	forensic medicine	lecture	exam
7	2	Invasive toxins, volatile toxins	forensic medicine	lecture	exam
8	2	Plant and genetic toxins - insecticides	forensic medicine	lecture	exam
9	2	food poisoning	forensic medicine	lecture	exam

10	2	Professional behavior throughout history In the Babylonian era - Hammurabi and Greek law	forensic medicine	lecture	exam
11	2	In Islamic times The development of the Hippocratic oath by Arab doctors	forensic medicine	lecture	exam
12	2	The responsibility of the doctor is more important than the fault	forensic medicine	lecture	exam
13	2	Doctor and government laws Abortion, contraception, medical advice, and the involvement of colleagues in the responsibility of treating the patient and transmitting disease among themselves	forensic medicine	lecture	exam
14	2	Patient fees and charges Medical experiments on humans and the autopsy of the dead	forensic medicine	lecture	exam
15	2	The character of the doctor and his relationship with people, patients and colleagues	forensic medicine	lecture	exam

**13. The structure of the course for practical forensic medicine / fourth academic level / second course**

<b>Week</b>	<b>hours</b>	<b>Required educational goals</b>	<b>Unit name and/or topic</b>	<b>Education method</b>	<b>Evaluation method</b>
1	2	Hair and fiber check	forensic medicine	forensic medicinelaboratory	exam/lab
2	2	Chemical changes in the blood after death	forensic medicine	forensic medicinelaboratory	exam/lab
3	2	Firearm wounds	forensic medicine	forensic medicinelaboratory	exam/lab
4	2	dry burns	forensic medicine	forensic medicinelaboratory	exam/lab
5	2	scalded burns	forensic medicine	forensic medicinelaboratory	exam/lab
6	2	Burn complications	forensic medicine	forensic medicinelaboratory	exam/lab
7	2	Introduction to forensic toxicology	forensic medicine	forensic medicinelaboratory	exam/lab
8	2	Coal gas poisoning	forensic medicine	forensic medicinelaboratory	exam/lab
9	2	collection of visceral sample	forensic medicine	forensic medicinelaboratory	exam/lab
10	2	The fate of toxins in the body	forensic medicine	forensic medicinelaboratory	exam/lab
11	2	Sudden death	forensic medicine	forensic medicinelaboratory	exam/lab
12	2	Estimated time spent on wounds	forensic medicine	forensic medicinelaboratory	exam/lab
13	2	Road accidents and lightning injuries	forensic medicine	forensic medicine laboratory	exam/lab
14	2	Hymen and forensic medicine	forensic medicine	forensicmedicine laboratory	exam/lab
15	2	age estimate	forensic medicine	forensicmedicine laboratory	exam/lab

#### 14. Cours Evaluation

- 15. Mid-course and final exams.
- 16.2- Pop quizzes.
- 17.4- Oral, practical and clinical examinations.
- 18.5- Reports.

#### 15. Infrastructure of forensic medicine

1-Required course books	Textbook of Forensic Medicine and Toxicology. Jaypee Brothers, Medical Publishers.2010. 2. Principles of Forensic Medicine and Toxicology. Rajesh Bardale. 2011
2- main references (sources)	Forensic Toxicology
3- Recommended books and references (scientific journals, reports)	Journal of Forensic Medicine
4- Electronic references, websites	<a href="http://www.ijfmt.com/">http://www.ijfmt.com/</a> <a href="https://www.bmj.com/content/2/5548/361">https://www.bmj.com/content/2/5548/361</a>