

**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

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 staP 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, quaJerly), 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: Tikrit university

Faculty/Institute: collage of medicine

Scientific Department: anatomy & histology department

Academic or Professional Program Name: Problem based –integrated curriculum.

Final Certificate Name: M.B.Ch.B.

Academic System: Annually

Description Preparation Date: 15\9\2025

File Completion Date: 15/9/2025.

Signature:

Head of Department Name:

prof:

Ilham.M.Mohammed

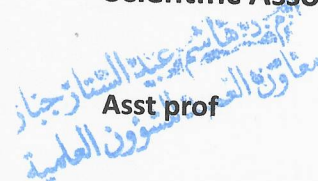


Signature:

Scientific Associate Name:

Asst prof

Hashem Abdulsattar



Date: 15/9/2025

Date: 15/9/2025

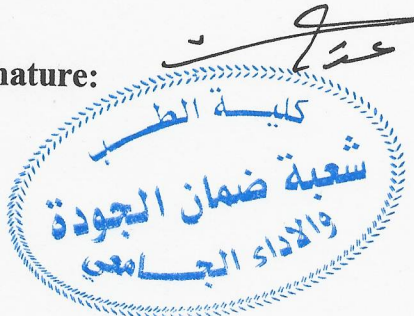
The file is checked by:

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

Tikrit Medical College seeks to be one of the leading medical schools in Iraq by keeping up with the progress in

The field of basic and Clinical Medical Sciences based on the health needs of the community and the method of

Diagnosis and analysis of various health problems in all their aspects, and the centrality of the doctor's role to reach.

Successful and satisfactory solutions by guiding students and making them able to rely on themselves.

In the fields of Education, diagnostics, and scientific research.

- The message:

Graduation of competent and open doctors in the direction of health problems and the development and improvement of Health reality in

Community through:

1 .to provide flexible and knowledgeable medical education to prepare students scientifically, professionally, and behaviorally to be distinguished doctors in

The medical community and society and the adoption of the principle of lifelong learning, through the creation of a sound scientific environment and

Advanced scientific and academic level.

2. introduce students, from the first stages of the study years, to solve health problems in a way

Analysis and diagnosis based on discussion panels, E-Classes and case tests.

And other methods and educational means in raising these problems and addressing them from

Basic, clinical aspects and within the medical-legal controls.

3. development of scientific and professional capabilities through periodic visits to health centers and sectors

Since the first academic stages, and to identify various health problems in the community. Discussing them and developing solutions and methods of treatment on a solid and advanced scientific basis

4. develop the administrative and leadership capabilities of the Doctor(student)through work training in the form of

Groups under the central supervision of teachers and students.

5. enhancing students ' abilities in the field of scientific research and the mechanism of writing research and academic articles

Scientific, medical, and other, through the work of reports and articles shared by a group of students.

Under the supervision of the teaching staff in basic and Clinical Medical Sciences since the academic years

The first one.

6 .to spread the spirit of assistance and cooperation among students, and the spirit of sober scientific competition among them in

Various scientific and research fields, encouraging talents, sports, artistic and intellectual activities, Literary and other.

7 .establishing professional behavioral and ethical rules among doctors (students) and preparing them behaviorally and ethically.

To practice the profession in accordance with the principles that comply with the ethics and controls of society in all its categories.

8. help students and guide them on practical practice and broaden their thinking horizons in diagnosing cases.

Gain experience from their colleagues on modern and advanced scientific bases and keep up with scientific progress.

Professional.

9. introduce students to the medical staff, Middle staff, administrative staff, and professional dealing with

All cadres to ensure that new doctors practice their life and profession immediately after graduation.

10. familiarizing students (doctors) with professional and behavioral duties, their rights and protecting themselves healthily and legally.

2. Program Mission

Program mission is written here as stated in the university's catalogue and website.

3. Program Objectives

Medical education at Tikrit Medical College aims at the following:

.1-graduate doctors who are psychologically, scientifically, and behaviourally prepared to work flexibly and efficiently in the field of healthcare

In all its aspects.

.2 formation of an integrated professional and scientific personality for graduates and development of their abilities to face.

Health problems, analysing, diagnosing, and discussing them with their colleagues and making the appropriate decision in

Solve and treat these problems and write prescriptions based on intellectual analysis and in line with

Scientific and medical development.

.3development and development of the possibilities and capabilities of graduate doctors through work and continuing education programs

And postgraduate studies and scientific research.

.4 directing and highlighting scientific research towards the health problems of society and marketing the results to the relevant authorities.

In cooperation with other health institutions.

.5. development of health services and social development through the effective

participation of the academic team and
 Activating partnerships with various institutions.

4. Program Accreditation

Iraqi National Guideline on Standards for Established and Accrediting Medical School

5. Other external influences

WHO

6 Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
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	
			theoretical	practical
First	Ana 0131	Anatomy	45	90
Second	Ana0232	Anatomy	40	120
Third	Ana0333	Anatomy	35	90

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First	Hist0134	Histology	35	45
Second	Hist0235	Histology	30	60
Third	Hist0336	Histology	30	45

Learning Outcomes 2	Learning Outcomes Statement 2
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Learning Outcomes 3	Learning Outcomes Statement 3
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Learning Outcomes 4	Learning Outcomes Statement 4
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Learning Outcomes 5	Learning Outcomes Statement 5
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7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First	Embr0137	Embryology	15	
Second	Embr0238	Embryology	15	
Third	Embr0339	Embryology	15	

8. Expected learning outcomes of the program

Knowledge
Learning Outcomes 1

Study of anatomy and tissues of the body . Learning Outcomes Statement 1 very good

Skills

Learning Outcomes 2 Learning Outcomes Statement 2

Learning Outcomes 3 Learning Outcomes Statement 3

Ethics

Learning Outcomes 4 Learning Outcomes Statement 4

Learning Outcomes S Learning Outcomes Statement 5

9. Teaching and Learning Strategies

1- Large group teaching

2- Small group teaching

Practical & clinical session

10. Evaluation methods

1- Formative assessment

2- Final summative exam

Objective Structured Clinical Examination (OSCE)

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assist.prof: Elham.M. Mahmoud	B.M.V. S	Anatomy and histology			✓	
Prof. Saad. A. Mohammed	M.B.Ch.B.	Anatomy and histology			✓	
Prof. Mohammed A. Abdulla	M.B.Ch.B.	Anatomy and histology			✓	
Prof. Abdul Jabbar. J. Mahdi	B.M.V. S	Anatomy			✓	
Prof. Khulood. N. Rasheed	B.S.C	Histology				✓
Prof.Samira.A. Abdullah	B.S.C	Histology			✓	
Prof.Adris.K. Thamer	B.M.V. S	Anatomy and histology			✓	
Lec.Hussain.I. Hussain	B.S.C	Histology			✓	
Assist.lec. Saif.K. Mohammed	B.M.V. S	Anatomy and histology			✓	
Assist.Lec. Ahmed. I. Mohammed	B.D. S	Anatomy and histology			✓	
Assist.Lec. Nabaa A. Mahommed	B.D. S	Anatomy and histology			✓	
Assist.Lec Marwa M. Abdul alrahem	M.B.Ch.B.	Embryology			✓	
Assist.Lec. Muthana M. Jghef	B.S.C	Histology			✓	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full—time, and part—time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

Through central admission, the college has the right to interview the student to verify his psychological well-being.

13. The most important sources of information about the program

Medical education unit

14. Program Development Plan

Program Skills Outline

Year/Level	Course Code	Course Name	Basic or optional	Required program Learning outcomes																		
				Knowledge				Skills				Ethics										
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4							
First		Anatomy	Basic	X	X				X	x	x				X							
				X	X				X	X	x				X							
Second		Anatomy	Basic	X	X				X	x	X				X							
				X	X				X	X	x				X							
Third		Anatomy	Basic	x	x				x	x	X				x							

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

Program Skills Outline

				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			C4
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	
First		Histology	Basic	X	X			X	x	x		X	x		
				X	X			X	X	x		X	X		
Second		Histology	Basic	X	X			X	x	X		X	X		
				X	X			X	X	x		X	X		
Third		Histology	Basic	x	x			x	x	X		x	X		

Program Skills Outline															
				Required program Learning outcomes											
Year/ Level	C o u r s e C o d e	C o u r s e N a m e	Basic or optional	Knowledge				Skills				Ethics			C4
				A 1	A 2	A 3	A 4	B 1	B 2	B 3	B 4	C 1	C 2	C 3	
First		Embryology	Basic	X	X			X	x	x		X	x		
				X	X			X	X	x		X	X		
Second		Embryology	Basic	X	X			X	x	X		X	X		
				X	X			X	X	x		X	X		
Third		Embryology	Basic	x	x			x	x	X		x	X		

Course Description Form

1. Course Name:

First Anatomy

2. Course Code:

Ana0131

3. Semester / Year:

2024-2025

4. Description Preparation Date:

11\9\2024

5. Available Attendance Forms:

Classrooms and laboratories

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

45 theoretical hours and 90 practical hours, totaling 135 hours per year.

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

Prof. Dr. Idris Khalaf Thamer

Assist.lec. Ahmed Ibrahim Mohammed

8. Course Objectives

Graduating doctors who are able to understand the relationship of anatomy to body functions through multiple examples that rely on modern information. It also aims to clarify the anatomical and tissue changes that occur within the body.

9. Teaching and Learning Strategies

The method of giving lectures (the theoretical aspect of the subject matter).

- Practical lectures.

10. Course Structure/Syllabus (First Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 1 (Introduction to Clinical Anatomy): - Descriptive Anatomic Terms , Terms Related to position.	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Block 1 (Introduction to Clinical Anatomy): - Descriptive Anatomic Terms, Terms Related to Movement.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Block 1 (Introduction to Clinical Anatomy): - Basic Structures , Skin, hairs and Nails	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	Block 1 (Introduction to Clinical Anatomy): - Introduction in Muscle	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	Block 1 (Introduction to Clinical Anatomy): - Introduction in Joints.	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	Block 2 (Introduction to Clinical Anatomy): - Introduction in Ligaments ,Blood Vessels	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Block 2 (Introduction to Clinical Anatomy): - Introduction in Lymphatic System.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	Block 3 (Introduction to Clinical Anatomy): - Introduction in Nervous System	PDF + PPt	Oral questions
9 th	1	Understand the topic of lecture	Block 3 (Introduction to Clinical Anatomy): - Introduction in Skeletal System , Bone , Cartilage	PDF + PPt	Oral questions
10 th	1	Understand the topic of lecture	Block 3 (Introduction to Clinical Anatomy): - Introduction in Skeletal System , Bone , Cartilage	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	Block 3 (Introduction to Clinical Anatomy): - Introduction in Skeletal System , The vertebral column.	PDF + PPt	Oral questions
12 th	1	Understand the topic of lecture	Block 4 (Introduction to Clinical Anatomy): - Bony landmarks	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	Block 3 (Introduction to Clinical Anatomy): - Bony landmarks	PDF + PPt	Oral questions
14 th	1	Understand the topic of lecture	Block 4 (Introduction to Clinical Anatomy): - Neonatal Skull	PDF + PPt	Oral questions
15 th	1	Understand the topic of lecture	Block 4(The Reproductive System): - The Female Breasts.	PDF + PPt	Oral questions

10. Course Structure/Syllabus (Second Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 5(The Reproductive System): - The Female Reproductive System, The Perineum	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Block 5(The Reproductive System): - The Female Reproductive System, The Female Genital Organs.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Block 5(The Reproductive System): - The Female Reproductive System, The Female Genital Organs.	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	Block 5(The Reproductive System): - The Female Reproductive System, The Female Genital Organs.	PDF ++ PPt	Oral questions
5 th	1	Understand the topic of lecture	Block 6(The Reproductive System): - The Female Reproductive System, blood supply .	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	Block 6(The Reproductive System): - The Female Reproductive System, Lymphatic Drainage.	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Block 6 (The Reproductive System): - The Female Reproductive System, Nerve supply.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	Block 7 (The Male Reproductive System): - The Male Reproductive System, The Perineum	PDF + PPt	Oral questions
9 th	1	Understand the topic of lecture	Block 7 (The Male Reproductive System): - The Male Reproductive System, The Male Genital Organs.	PDF + PPt	Oral questions
10 th	1	Understand the topic of lecture	Block 7 (The Male Reproductive System): - The Male Reproductive System, The Male Genital Organs.	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	Block 7 (The Male Reproductive System): - The Male Reproductive System, The Male Genital Organs.	PDF+ PPt	Oral questions

12 th	1	Understand the topic of lecture	Block 7 (The Male Reproductive System): - The Male Reproductive System, The Male Genital Organs.	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	Block 8 (The Male Reproductive System): - The Male Reproductive System, blood supply	PDF+ PPt	Oral questions
14 th	1	Understand the topic of lecture	Block 8 (The Male Reproductive System): - The Male Reproductive System, Lymphatic Drainage.	PDF + PPt	Oral questions
15 th	1	Understand the topic of lecture	Block 8 (The Male Reproductive System): - The Male Reproductive System, Nerve supply.	PDF + PPt	Oral questions

11. Infrastructure

(a) Required Textbooks	- Snell RS. Clinical Anatomy by Systems. 6th ed. Philadelphia, Lippincott Williams & Wilkins. 2024: 41- 62.
(b) Main References	- Moore KL. Clinically Oriented Anatomy. Baltimore, Williams & Wilkins. 2021: 102 –15. - Williams PL & Warwick R. Gray's Anatomy, 42th ed. Edinburgh, Churchill Livingstone. 2022: 1342 – 67.
(c) Electronic references	- Virtual electronic library. - Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.

1. Course Name:	First Histology
2. Course Code:	Hist 0134
3. Semester / Year:	2024-2025
4. Description Preparation Date:	11\9\2024
5. Available Attendance Forms:	Classrooms and laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)	35 theoretical, 45 practical, 80 hours per year
7. Course administrator's name (mention all, if more than one name)	Prof. Dr. Kholoud Naji Rashid / Assist.lec. Muthanna Mutasher jighief / lec.Dr. Hussein Ibrahim Hussein
8. Course Objectives	<p>A- Providing the student with information that enables him to understand the nature of tissue: its shape and components, and thus he will be able to understand the importance of tissue, which is the component of the organ, and with the meeting of the organs that have a common relationship in performing certain functions, the system will be formed, and with the sum of the systems, the body of the organism will be formed.</p> <p>B- The conclusion of the first paragraph is that the student will be familiar with the concepts of the shape, structure, and function of the body's systems, and how they work in precise and organized harmony.</p>
9. Teaching and Learning Strategies	The method of giving lectures (the theoretical aspect of the subject matter). Practical lectures.

10. Course Structure/Syllabus (First Semester)					
Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Definition of the microscope: - Introduction of the microscope, types, parts of compound microscope. - How to use it, how to care for it. - How to calculate the magnification power.	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Microscopic preparations/Micro-techniques: - A brief introduction to its types. - Definition of the tissue sectioning technique and its mechanism.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Cell Biology: - Introduction of cells (definition, description by simple microscope). - Cell theory, differences between eukaryotic and prokaryotic cells. - Shapes and sizes of cells.	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	- Composition of the plasma membrane. - Specializations/modifications of cell surfaces (free, lateral, basal).	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	- Transport across the plasma membrane, endocytosis and exocytosis. - Contents of the cytosol (organelles and other structures).	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	- Membranous and non-membranous organelles. - Cytoskeleton. - Cell cycle (Mitosis and Meiosis).	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Definition of tissue in general: - Introduction of Histology, basic types of tissues, origin of tissue. - Definition of epithelial tissue, its origin, its features. - Classification of epithelial tissue (covering, lining and glandular). - Functions of epithelial tissue.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	- Glandular epithelial tissues (glands). - Classification of glands according to: (method of secretion, number of cells involved in the composition of the gland, type of secretion, contribution of its cells to secretion). - Structure of the compound gland and formation of glands.	PDF + PPt	Oral questions
9 th	1	Monthly exam	-	-	Written exam
10 th	1	Understand the topic of lecture	- Definition of connective tissue. - Elements of connective tissue (cells, fibers, ground substance). - Classification of connective tissue (general and specialized).	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	- General connective tissue (loose and dense): - Types of loose t. (mesenchyme, areolar, mucous, adipose, reticular). - Types of dense t. (irregular, regular elastic and white fibrous).	PDF + PPt	Oral questions
12 th	1	Understand the topic of lecture	- Definition of muscle tissue, its features. - Classification of muscles according to their structure and function: - Voluntary striated muscles (skeletal). - Involuntary smooth muscles (visceral). - Involuntary striated muscles (cardiac).	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	- Structure of the fiber and muscle fibrils, contraction mechanism. - Sarcoplasm, types of skeletal muscle fibers. - Differences between cardiac and skeletal muscle fibers structurally. - Purkinje fibers.	PDF + PPt	Oral questions
14 th	1	Understand the topic of lecture	- Introduction of nerve tissue. - Nerve cells and supportive cells in nerve tissue. - Nerve cell and its parts (cell body, protoplasmic processes).	PDF + PPt	Oral questions
15 th	1	Understand the topic of lecture	- Typical neuron cell body and classification of neurons. - Types of nerve fibers (myelinated and unmyelinated). - Synapses.	PDF + PPt	Oral questions
16 th	1	Monthly exam	-	-	Written exam

10. Course Structure/Syllabus (Second Semester)					
Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	- Female reproductive system - Introduction, Ovary (early development of ovary, ovarian	PDF + PPt	Oral questions

			follicles).		
2 nd	1	Understand the topic of lecture	- Growth and development of ovarian follicles. - Ovulation and its hormonal regulation.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	- Corpus luteum, fallopian tubes. - Main fertilization events.	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	- Uterus, myometrium, endometrium. - Menstrual cycle.	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	- Embryo implantation, placenta. - Cervix, vagina.	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	- External genitalia. - Mammary glands: breast growth during puberty, during pregnancy and lactation, after lactation.	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	- Male reproductive system - Introduction, testicles, interstitial tissue, seminiferous tubules.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	- Spermatogenesis. - Clonal nature of male germ cells. - Spermatogenesis, Spermiogenesis, Sertoli cells.	PDF + PPt	Oral questions
9 th	1	Monthly exam	-	-	Written exam
10 th	1	Understand the topic of lecture	- Intratesticular ducts, excretory genital ducts - Epididymis.	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	- Accessory glands, seminal vesicles. - Prostate gland, bulbourethral, penis.	PDF + PPt	Oral questions
12 th	1	Understand the topic of lecture	- Skin (Integument): - Introduction, functions of the skin. - Layers of the epidermis.	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	- Other epidermal cells (melanocyte, Langerhans cell, Merkel cell). - Dermis.	PDF + PPt	Oral questions
14 th	1	Understand the topic of lecture	- Subcutaneous tissue. - Sensory receptors. - Hair.	PDF + PPt	Oral questions
15 th	1	Understand	- Nails.	PDF +	Oral

		the topic of lecture	- Skin glands (sebaceous glands, sweat glands).	Ppt	questions
16 th	1	Monthly exam	-	-	Written exam

11. Infrastructure	
(a) Required Textbooks	- Basic Histology (Text and Atlas). 14 th ed. (2016) and 15 th ed. (2018). Junqueira & Carneiro.
(b) Main References	- Atlas of Histology with functional and clinical correlations. 1 st ed. (2011). Dongmei Cui. - Histology (With Correlated Cell and Molecular Biology). 6 th ed. (2011). Ross & Pawlina. - Functional Histology. 5 th ed. (2011). Barbara Young & James Lowe.
(c) Electronic references	- Virtual electronic library. - Google Scholar.
12. Curriculum Development Plan	
The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.	

1. Course Name:	First embryology
2. Course Code:	Embr 0137
3. Semester / Year:	2024-2025
4. Description Preparation Date:	11/9/2024
5. Available Attendance Forms:	Classrooms
6. Number of Credit Hours (Total) / Number of Units (Total)	15 theoretical hours per year
7. Course administrator's name (mention all, if more than one name)	Prof.dr. Idris Khalaf Thamer / Assist.lec. Marwa Mahmoud Abdel Rahim

8. Course Objectives

A- Effective contribution to medical progress through education and preparing competent doctors to provide the best medical services and continue scientific research in all medical fields.

B- Preparing doctors who are distinguished by their scientific competence and experience, enhanced by their understanding of the anatomical and histological foundations and linking them to the vital processes that occur inside the human body in normal and pathological cases.

9. Teaching and Learning Strategies

- How to give lectures

10. Course Structure/Syllabus (First Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Introduction to embryology, the process of mitotic and meiotic divisions	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Chromosomes, genes and abnormalities associated with abnormal number or structure of chromosomes	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Oogenesis and spermatogenesis	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	Ovarian cycle, hormones, ovulation and layers of the uterus	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	Fertilization, cleavage and implantation	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	Second week of development, bilaminar germ disc formation	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Gastrulation, formation of endoderm, mesoderm and ectoderm.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	Neural and gut tubes formation	PDF + PPt	Oral questions
9 th	1	Understand the topic of lecture	placenta	PDF + PPt	Oral questions
10 th	1	Understand the topic of lecture	Umbilical ring, twins and labor	PDF + PPt	Oral questions

11. Infrastructure

(a) Required Textbooks	- 1- Sadler TW. Langman's Medical Embryology. 14th ed, Lippincott Williams & Wilkins. 2018.
(c) Electronic references	- Virtual electronic library. - Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.

1. Course Name:

second Anatomy

2. Course Code:

Ana0232

3. Semester / Year:

2024-2025

4. Description Preparation Date:

11\9\2024

5. Available Attendance Forms:

Classrooms and laboratories

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

40 theoretical hours and 120 practical hours, totaling 160 hours per year.

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

Prof. Dr. Saad Ahmed Mohamed / Assist.lec. Saif Kamel Mohamed

8. Course Objectives

(a) Effective contribution to medical progress through education and preparing competent doctors to provide the best medical services and continue scientific research in all medical fields.

(b) Preparing doctors who are distinguished by their scientific competence and experience enhanced by understanding the anatomical and histological foundations and linking them to the vital processes that occur inside the human

body in normal and pathological cases.

9. Teaching and Learning Strategies

- Lecture method (theoretical aspect).

(c) Evaluation (estimation):

- Weekly (Quiz) exams.
- Monthly exams.
- Oral questions during the lecture..

10. Course Structure/Syllabus (First Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 1 (Bones): -Skull.	PDF + Ppt	Oral questions
2 nd	1	Understand the topic of lecture	Block 1 (Bones): -Bones of upper limbs.	PDF + Ppt	Oral questions
3 rd	1	Understand the topic of lecture	Block 1 (BONES): -Vertebral column.	PDF + Ppt	Oral questions
4 th	1	Understand the topic of lecture	Block 1 (Bones): -Bones of thoracic cage.	PDF + Ppt	Oral questions
5 th	1	Understand the topic of lecture	Block 1 (BONES): -Bones of pelvis.	PDF + Ppt	Oral questions
6 th	1	Understand the topic of lecture	Block 2 (BONES): - Bones of lower limbs and foot	PDF + Ppt	Oral questions
7 th	1	Understand the topic of lecture	Block 2 (joints): - Introduction of joints.	PDF + Ppt	Oral questions
8 th	1	Understand the topic of lecture	Block 3 (joints): - joints of head and neck.	PDF + Ppt	Oral questions
9 th	1	Understand the topic of lecture	Block 3 (joints): -Joints of thoracic cage.	PDF + Ppt	Oral questions
10 th	1	Understand the topic of lecture	Block 3 (Joints): - joints of vertebral column.	PDF + Ppt	Oral questions
11 th	1	Understand the topic of lecture	Block 3 (Joints): -joints of upper limbs.	PDF + Ppt	Oral questions
12 th	1	Understand the topic of lecture	Block 4 (Joints): -joints of lower limbs and pelvis.	PDF + Ppt	Oral questions
13 th	1	Understand the topic of lecture	Block 4 (Joints): -joints of foot and foot arches.	PDF + Ppt	Oral questions
14 th	1	Understand the topic of lecture	Block 4 (Muscles): -Introduction of muscles.	PDF + Ppt	Oral questions
15 th	1	Understand the topic of lecture	Block 4 (Muscles): -Muscles of head and neck.	PDF + Ppt	Oral questions

10. Course Structure/Syllabus (Second Semester)

Week	Hours	Required	Name topic	Teaching	Evaluation
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		learning outcomes		Method	Method
1 st	1	Understand the topic of lecture	Block 5 (Muscles): -Anterior thoracic muscle and abdominal muscle.	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Block 5 (Muscles): -muscles of back.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Block 5 (Muscles): -Muscle of abdomen.	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	Block 5 (Muscles): - Muscles of upper limbs.	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	Block 6 (Muscles): -muscles of lower limbs.	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	Block 6 (Cardiovascular system): -Anatomy of the heart and their blood supply.	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Block 7 (Cardiovascular system): - Blood vessels of chest.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	Block 7 (Cardiovascular system): -Blood vessels of head and neck.	PDF + PPt	Oral questions
9 th	1	Understand the topic of lecture	Block 7 (Cardiovascular system): -Blood vessels of upper extremities.	PDF + PPt	Oral questions
10 th	1	Understand the topic of lecture	Block 7 (Cardiovascular system): - Blood vessels of the abdomen.	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	Block 8 (Cardiovascular system): - blood vessels of pelvis.	PDF + PPt	Oral questions
12 th	1	Understand the topic of lecture	Block 8 (Cardiovascular system): - blood vessels of lower extremities.	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	Block 8 (Lymphatic system): -Introduction about lymphatic system.	PDF + PPt	Oral questions
14 th	1	Understand the topic of lecture	Block 8 (Lymphatic system): - lymphatic vessels in upper and lower portion of body.	PDF + PPt	Oral questions
15 th	1	Understand the topic of lecture	Block 8 (Lymphatic system): - Tensile & spleen .	PDF + PPt	Oral questions

11. Infrastructure

(a) Required Textbooks	- Snell RS. Clinical Anatomy by Systems. 6th ed. Philadelphia, Lippincott Williams & Wilkins. 2024: 41- 62.
(b) Main References	- Moore KL. Clinically Oriented Anatomy. Baltimore, Williams & Wilkins. 2021: 102 –15. - Williams PL & Warwick R. Gray's Anatomy, 42th ed. Edinburgh, Churchill Livingstone. 2022: 1342 – 67.
(c) Electronic references	- Virtual electronic library. - Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.

1. Course Name:
second Histology
2. Course Code:
Hist 0235
3. Semester / Year:
2024-2025
4. Description Preparation Date:
11\9\2024
5. Available Attendance Forms:
Classrooms and laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
30 theoretical, 60 practical, 90 hours per year
7. Course administrator's name (mention all, if more than one name)
Assist.prof.dr.: Elham.M. Mahmoud / Asist.lec. Muthanna Mutasher jighief
8. Course Objectives
<ol style="list-style-type: none"> 1. Provide students with knowledge to understand the normal structure of body tissues, organs, and systems, including their shape and components, while linking them to their functions. 2. Enable students to recognize any pathological changes that may occur in these structures.
9. Teaching and Learning Strategies
<ul style="list-style-type: none"> • Theoretical Lectures • Practical Laboratory Sessions

10. Course Structure/Syllabus (First Semester)					
Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 1: Blood – Blood components, plasma, red blood cells, white blood cells, platelets	PDF + Ppt	Oral questions

2 nd	1	Understand the topic of lecture	Bone Marrow – Definition, types, functions	PDF + Ppt	Oral questions
3 rd	1	Understand the topic of lecture	Hematopoiesis – Red blood cell formation, platelet formation	PDF + Ppt	Oral questions
4 th	1	Understand the topic of lecture	Granulocyte and agranulocyte formation	PDF + Ppt	Oral questions
5 th	1	Understand the topic of lecture	Block 2: Lymphatic System – Basic components, lymph, lymphatic vessels and channels, their histological structure and function	PDF + Ppt	Oral questions
6 th	1	Understand the topic of lecture	Lymphoid tissue and organs – Lymph nodes: structure and function	PDF + Ppt	Oral questions
7 th	1	Understand the topic of lecture	Spleen: histological structure, function, blood circulation	PDF + Ppt	Oral questions
8 th	1	Understand the topic of lecture	Thymus: structure, function, age-related changes; Tonsils – types (pharyngeal, lingual, palatine)	PDF + Ppt	Oral questions
9 th	1	1 st semester exam			Written exam
10 th	1	Understand the topic of lecture	Block 3: Muscular System – Introduction	PDF + Ppt	Oral questions
11 th	1	Understand the topic of lecture	Skeletal muscle: structure under light and electron microscopes, age-related effects	PDF + Ppt	Oral questions
12 th	1	Understand the topic of lecture	Neuromuscular structure – Motor and sensory components	PDF + Ppt	Oral questions

13 th	1	Understand the topic of lecture	Cardiac muscle: structure under light and electron microscopes, age-related effects	PDF + PPT	Oral questions
14 th	1	Understand the topic of lecture	Smooth muscle: structure under light and electron microscopes, age-related effects	PDF + PPT	Oral questions
15 th	1	Understand the topic of lecture	Comparison of different muscle types under light and electron microscopes	PDF + PPT	Oral questions

10. Course Structure/Syllabus (Second Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 4: Bones & Joints – Introduction, main components of bone tissue (osteocytes, extracellular matrix, fibers)	PDF + PPT	Oral questions
2 nd	1	Understand the topic of lecture	Bone types (compact & spongy bone).	PDF + PPT	Oral questions
3 rd	1	Understand the topic of lecture	Bone formation (endochondral and intramembranous ossification)	PDF + PPT	Oral questions
4 th	1	Understand the topic of lecture	Cartilage – Introduction, histological structure (chondrocytes, extracellular matrix, fibers)	PDF + PPT	Oral questions
5 th	1	Understand the topic of lecture	Types of cartilage (hyaline, fibrocartilage, elastic cartilage)	PDF + PPT	Oral questions
6 th	1	Understand the topic of lecture	Joints – Types, histological structure, relation to	PDF + PPT	Oral questions

			location and function		
7 th	1	Understand the topic of lecture		PDF + Ppt	Oral questions
8 th	1	Understand the topic of lecture	Block 5: Cardiovascular System – Introduction to the heart	PDF + Ppt	Oral questions
9 th	1	Monthly exam	Histological structure of the heart wall layers	-	Written exam
10 th	1	Understand the topic of lecture	Comparison between cardiac fibers and Purkinje fibers (location, structure, function)	PDF + Ppt	Oral questions
11 th	1	Understand the topic of lecture	Heart structure, conduction system (histology and function)	PDF + Ppt	Oral questions
12 th	1	Understand the topic of lecture	Blood vessels – General structure, classification of arteries and veins	PDF + Ppt	Oral questions
13 th	1	Understand the topic of lecture	Structural and functional differences between arteries and veins	PDF + Ppt	Oral questions
14 th	1	Understand the topic of lecture	Histology of capillaries – Differences between the three capillary types	PDF + Ppt	Oral questions
15 th	1	Understand the topic of lecture	Arterio-venous communication	PDF + Ppt	Oral questions

11. Infrastructure

(a) Required Textbooks	- Basic Histology (Text and Atlas). 14 th ed. (2016) and 15 th ed. (2018). Junqueira & Carneiro.
(b) Main References	- Atlas of Histology with functional and clinical correlations. 1 st ed. (2011). Dongmei Cui. - Histology (With Correlated Cell and Molecular Biology). 6 th ed. (2011). Ross & Pawlina. - Functional Histology. 5 th ed. (2011). Barbara Young & James Lowe.
(c) Electronic references	- Virtual electronic library. - Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.

1. Course Name:					
second embryology					
2. Course Code:					
Embr 0238					
3. Semester / Year:					
2024-2025					
4. Description Preparation Date:					
11\9\2024					
5. Available Attendance Forms:					
Classrooms					
6. Number of Credit Hours (Total) / Number of Units (Total)					
15 theoretical hours per year					
7. Course administrator's name (mention all, if more than one name)					
Asist.lec. Marwa Mahmoud Abdel Rahim					
8. Course Objectives					
A- Effective contribution to medical progress through education and preparing competent doctors to provide the best medical services and continue scientific research in all medical fields. B- Preparing doctors who are distinguished by their scientific competence and experience, enhanced by their understanding of the anatomical and histological foundations and linking them to the vital processes that occur inside the human body in normal and pathological cases.					
9. Teaching and Learning Strategies					
- Lecture method (theoretical aspect). - Practical lectures.					
10. Course Structure/Syllabus (First Semester)					
Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method

1 st	1	Understand the topic of lecture	Introduction to bone formation origin and oogenesis.	PDF + PPt	Oral questions, daily quiz and homework
2 nd	1	Understand the topic of lecture	Skull formation, neonatal skull sutures and fontanelle.	PDF + PPt	Oral questions, daily quiz and homework
3 rd	1	Understand the topic of lecture	Vertebral column formation, ribs and sternum.	PDF + PPt	Oral questions, daily quiz and homework
4 th	1	Understand the topic of lecture	Joints, upper and lower limbs development.	PDF + PPt	Oral questions, daily quiz and homework
5 th	1	Understand the topic of lecture	Clinical correlates to the axial skeleton and limbs formation.	PDF + PPt	Oral questions, daily quiz and homework
6 th	1	Understand the topic of lecture	Introduction to the embryology of muscular system	PDF + PPt	Oral questions, daily quiz and homework
7 th	1	Understand the topic of lecture	Origin of cardiac, smooth and striated muscle groups	PDF + PPt	Oral questions, daily quiz and homework
8 th	1	Understand the topic of lecture	Clinical correlates to the muscle formation.	PDF + PPt	Oral questions, daily quiz and homework
9 th	1	Understand the topic of lecture	Pharyngeal arches, pouches and clefts.	PDF + PPt	Oral questions, daily quiz and homework
10 th	1	Understand the topic of lecture	Derivatives of each pharyngeal arch , cleft and pouch.	PDF + PPt	Oral questions, daily quiz and homework

10. Course Structure/Syllabus (Second Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Formation of the progenitor heart cells and heart tubes	PDF + PPt	Oral questions, daily quiz and homework
2 nd	1	Understand the topic of lecture	Parts of the heart tube, bending of heart tube	PDF + PPt	Oral questions, daily quiz and homework

3 rd	1	Understand the topic of lecture	Formation and differentiation of heart chambers.	PDF + Ppt	Oral questions, daily quiz and homework
4 th	1	Understand the topic of lecture	cardiac septum and valves development	PDF + Ppt	Oral questions, daily quiz and homework
5 th	1	Understand the topic of lecture	Conductive and atrial system development.	PDF + Ppt	Oral questions, daily quiz and homework
6 th	1	Understand the topic of lecture	Venous system development.	PDF + Ppt	Oral questions, daily quiz and homework
7 th	1	Understand the topic of lecture	Fetal circulation	PDF + Ppt	Oral questions, daily quiz and homework
8 th	1	Understand the topic of lecture	Changes of arterial and venous systems after labor	PDF + Ppt	Oral questions, daily quiz and homework
9 th	1	Understand the topic of lecture	Congenital anomalies related to the cardiovascular development	PDF + Ppt	Oral questions, daily quiz and homework
10 th	1	Understand the topic of lecture	Hematopoiesis	PDF + Ppt	Oral questions, daily quiz and homework

11. Infrastructure

(a) Required Textbooks	- 1- Sadler TW. Langman's Medical Embryology. 14th ed, Lippincott Williams & Wilkins. 2018.
(c) Electronic references	- Virtual electronic library. - Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.

1. Course Name:
Third Anatomy
2. Course Code:
Ana0333
3. Semester / Year:
2024-2025
4. Description Preparation Date:
11\9\2024
5. Available Attendance Forms:
Classrooms and laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
35 theoretical hours and 90 practical hours, totaling 125 hours per year.
7. Course administrator's name (mention all, if more than one name)
Prof. Dr. Mohammed Ahmed Abdullah / Assit.lec. Nabaa Riyadh Ahmed Mohammed
8. Course Objectives
<p>(a) Effective contribution to medical progress through education and preparing competent doctors to provide the best medical services and continue scientific research in all medical fields.</p> <p>(b) Preparing doctors who are distinguished by their scientific competence and experience enhanced by understanding the anatomical and histological foundations and linking them to the vital processes that occur inside the human body in normal and pathological cases.</p>
9. Teaching and Learning Strategies
<ul style="list-style-type: none"> - Lecture method (theoretical aspect). - Practical lectures.

10. Course Structure/Syllabus (First Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 1 (Digestive System): - Mouth, tongue, palate, salivary glands and pharynx.	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Block 1 (Digestive System): - Esophagus and stomach.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Block 1 (Digestive System): - The small intestine.	PDF + PPt	Oral questions
4 th	1	Understand the topic of lecture	Block 1 (Digestive System): - The large intestine, rectum and anal canal.	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	Block 1 (Digestive System): - Anterior abdominal wall, peritoneum and peritoneal cavity.	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	Block 2 (Liver and pancreas): - Liver, portal vein, hepatic bile ducts, gallbladder and cystic duct	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Block 2 (Liver and pancreas): - Pancreas, pancreatic ducts, and spleen.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	Block 3 (Respiratory System): - Nose, nasal cavity, paranasal sinuses, and larynx.	PDF + PPt	Oral questions
9 th	1	Understand the topic of lecture	Block 3 (Respiratory System): - Trachea and bronchi.	PDF + PPt	Oral questions
10 th	1	Understand the topic of lecture	Block 3 (Respiratory System): - The Lungs.	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	Block 3 (Respiratory System): - Surface anatomy of the airway in the neck, chest wall, chest cavity, diaphragm, mediastinum, and pleura.	PDF + PPt	Oral questions
12 th	1	Understand the topic of lecture	Block 4 (Endocrine): - Pituitary gland and pineal body.	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	Block 4 (Endocrine): - Thyroid, thymus, and parathyroid glands.	PDF + PPt	Oral questions
14 th	1	Understand the topic of lecture	Block 4 (Endocrine): -The adrenal glands.	PDF + PPt	Oral questions
15 th	1	Understand the topic of lecture	Block 4 (Endocrine): - Accessory endocrine glands related to other organs.	PDF + PPt	Oral questions

10. Course Structure/Syllabus (Second Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Block 5 (Urinary system): - Kidneys.	PDF + PPt	Oral questions
2 nd	1	Understand the topic of lecture	Block 5 (Urinary system): - Ureters.	PDF + PPt	Oral questions
3 rd	1	Understand the topic of lecture	Block 5 (Urinary system): - Urinary bladder.	PDF + PPt	Oral questions

4 th	1	Understand the topic of lecture	Block 5 (Urinary system): - Male and Female urethra.	PDF + PPt	Oral questions
5 th	1	Understand the topic of lecture	Block 6 (Fluid Balance): - Fluid absorption.	PDF + PPt	Oral questions
6 th	1	Understand the topic of lecture	Block 6 (Fluid Balance): - Urination process.	PDF + PPt	Oral questions
7 th	1	Understand the topic of lecture	Block 7 (Neuroscience - Part 1): - Cranial Cavity.	PDF + PPt	Oral questions
8 th	1	Understand the topic of lecture	Block 7 (Neuroscience - Part 1): - Cerebral cortex lobes, gyri, sulci, and neural control areas.	PDF + PPt	Oral questions
9 th	1	Understand the topic of lecture	Block 7 (Neuroscience - Part 1): - Basal ganglia.	PDF + PPt	Oral questions
10 th	1	Understand the topic of lecture	Block 7 (Neuroscience - Part 1): - Thalamus and hypothalamus.	PDF + PPt	Oral questions
11 th	1	Understand the topic of lecture	Block 8 (Neuroscience - Part 2): - Midbrain and pons.	PDF + PPt	Oral questions
12 th	1	Understand the topic of lecture	Block 8 (Neuroscience - Part 2): - Medulla oblongata and cerebellum.	PDF + PPt	Oral questions
13 th	1	Understand the topic of lecture	Block 8 (Neuroscience - Part 2): - Meninges, cerebrospinal fluid, and blood supply to the brain.	PDF + PPt	Oral questions
14 th	1	Understand the topic of lecture	Block 8 (Neuroscience - Part 2): - Cranial nerves.	PDF + PPt	Oral questions
15 th	1	Understand the topic of lecture	Block 8 (Neuroscience - Part 2): - Spinal cord.	PDF + PPt	Oral questions

11. Infrastructure

(a) Required Textbooks	- Snell RS. Clinical Anatomy by Systems. 6th ed. Philadelphia, Lippincott Williams & Wilkins. 2024: 41- 62.
(b) Main References	- Moore KL. Clinically Oriented Anatomy. Baltimore, Williams & Wilkins. 2021: 102 –15. - Williams PL & Warwick R. Gray's Anatomy, 42th ed. Edinburgh, Churchill Livingstone. 2022: 1342 – 67.
(c) Electronic references	- Virtual electronic library. - Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.

1. Course Name:
third Histology
2. Course Code:
Hist 0336
3. Semester / Year:
2024-2025
4. Description Preparation Date:
11\9\2024
5. Available Attendance Forms:
Classrooms and laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
30 theoretical, 45 practical, 75 hours per year
7. Course administrator's name (mention all, if more than one name)
prof.dr. Samira Abdel Hussein Abdullah / lec.dr. Hussain Ibrahim Hussain
8. Course Objectives
<ol style="list-style-type: none"> 1. A-This Course provides the students with detail information, which enable them to understand the microscopic structure about the system and included organs of human body, as digestive, respiratory, endocrine, Urinary and nervous systems. 2. B-The student will learn the detail pants within the system and their connections, relations, and functions. 3. C-Medical students will be able to understand the histological Structure of the included systems and the detailed organs in each. The digestive system from the oral cavity to the end of anal Canal, as well as the digestive glands (i.e., liver, pancreas, salivary glands and gall bladder)- Respiratory system including the nose and end with lungs. Endocrine system, including all characterizations developments and structures of pituitary, thyroid, parathyroid, adrenal and pineal body, and all related hormones. Urinary System, including the detail structure of the kidney, and its related pants. Finally, the nervous system, including characteristic features, classification, types of nerve cells and all the other parts.
9. Teaching and Learning Strategies
<p>-Theoretical slides (through explaining all the characterization, theory, and differences for each system, and equell show the students prepared electronic slides related to the subject.</p> <p>-Practical work, using the light microscope of various tissues, sections, and explain each one separately,</p>

10. Course Structure/Syllabus (First Semester)					
Week	Hours	Required learning outcomes	Topic name	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Digestive system; oral cavity lips, cheeks Tongue, minor salivary glands	PDF + PPt	oral questions + quiz
2 nd	1	Understand the topic of lecture	Esophagus, glands, and wall Changes	PDF + PPt	oral questions
3 rd	1	Understand the topic of lecture	Stomach, Cardiac, fundic, body, and Pylorus, types of glands, and its variation	PDF + PPt	oral questions
4 th	1	Understand the topic of lecture	Small intestine, wall structure, Duodenum, jejunum, ileum, related glands	PDF + PPt	oral questions
5 th	1	Understand the topic of lecture	-Large intestine, cecum, Appendix, colon, rectum, wall changes	PDF + PPt	oral questions
6 th	1	Understand the topic of lecture	-Anal canal, internal and external sphincter, hemorrhoidal plexus,	PDF + PPt	oral questions
7 th	1	Understand the topic of lecture	Digestive glands; liver, pancreas, gall bladder, and salivary glands	PDF + PPt	oral questions
8 th	1	-	-	-	Written exam
9 th	1	Understand the topic of lecture	Respiratory system; Nose, nasopharynx Larynx, and epiglottis	PDF + PPt	oral questions
10 th	1	Understand the topic of lecture	-Trachea, Primary bronchi, Secondary bronchi,	PDF + PPt	oral questions
11 th	1	Understand the topic of lecture	lung; Terminal and respiratory bronchioles, hung lobule. Alveola duct-alveoli	PDF + PPt	oral questions
12 th	1	Understand the topic of lecture	-Endocrine system, general classification) cells of endocrine, diffuse neuroendocrine	PDF + PPt	oral questions
13 th	1	Understand the topic of lecture	-APUD system, Thyroid glands, cells and hormones, parathyroid glands.	PDF + PPt	oral questions
14 th	1	Understand the topic of lecture	-Pituitary glands/Adenohypophysis, divisions and cells of adenohypophysis.	PDF + PPt	oral questions
15 th	1	Understand the topic of lecture	-Neurohypophysis, parts, cellular structures and hormones; b. and pineal body.	PDF + PPt	oral questions

11. Course Structure/Syllabus (second Semester)
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Week	Hours	Required learning outcomes	Topic name	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Definition of the urinary system Kidneys, blood flow, Renal corpuscles	PDF + PPt	oral questions + quiz
2 nd	1	Understand the topic of lecture	Nephron, Proximal convoluted tubules loop of Henle, Distal convoluted tubules	PDF + PPt	oral questions
3 rd	1	Understand the topic of lecture	juxtaglomerular apparatus, Collecting tubules	PDF + PPt	oral questions
4 th	1	Understand the topic of lecture	Ureter, urinary bladder	PDF + PPt	oral questions
5 th	1	Understand the topic of lecture	Revisions	PDF + PPt	oral questions
6 th	1	-	-	-	Written exam
7 th	1	Understand the topic of lecture	Nervous system; Characterization	PDF + PPt	oral questions
8 th	1	Understand the topic of lecture	-functions and classification	PDF + PPt	oral questions
9 th	1	Understand the topic of lecture	Types of Nervous tissues	PDF + PPt	oral questions
10 th	1	Understand the topic of lecture	Types of ganglia and nerve endings	PDF + PPt	oral questions
11 th	1	Understand the topic of lecture	-Types of glial elements.	PDF + PPt	oral questions
12 th	1	Understand the topic of lecture	- Spinal cord	PDF + PPt	oral questions
13 th	1	Understand the topic of lecture	Cerebellum and cerebrum	PDF + PPt	oral questions
14 th	1	Understand the topic of lecture	Nerve synapse types and structure, Blood-brain barrier	PDF + PPt	oral questions
15 th	1	Understand the topic of lecture	CSF	PDF + PPt	oral questions

12. Infrastructure	
(a) Required Textbooks	Junqueira's Basic Histology (Text book of atlas 13 th edi. Anthony Li mescher 2013, PP:X1+544
(b) Main References	- Colour textbook of histology. 1997. W.B. Sanders comp. pp: 483 -Difiore's Atlas of Histology with functional correlation. 2005, Lippreath. -Atlas of histology with functional.com. 2017
(c) Electronic references	- Google Scholar.
13. Curriculum Development Plan	
The above subjects carted out within the time limits and updating some topics which are related with the scientific and practical modernity.	

1. Course Name:					
third embryology					
2. Course Code:					
Embr 0339					
3. Semester / Year:					
2024-2025					
4. Description Preparation Date:					
11\9\2024					
5. Available Attendance Forms:					
Classrooms					
6. Number of Credit Hours (Total) / Number of Units (Total)					
15 theoretical hours per year					
7. Course administrator's name (mention all, if more than one name)					
Assist.lec. Marwa Mahmoud Abdel Rahim					
8. Course Objectives					
A- Effective contribution to medical progress through education and preparing competent doctors to provide the best medical services and continue scientific research in all medical fields.					
B- Preparing doctors who are distinguished by their scientific competence and experience, enhanced by their understanding of the anatomical and histological foundations and linking them to the vital processes that occur inside the human body in normal and pathological cases.					
9. Teaching and Learning Strategies					
- Lecture method (theoretical aspect).					
- Practical lectures.					
10. Course Structure/Syllabus (First Semester)					
Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Introduction to gastrointestinal tract formation	PDF + Ppt	Oral questions, daily quiz and homework
2 nd	1	Understand the topic of lecture	Pharynx ,esophagus and stomach development	PDF + Ppt	Oral questions, daily quiz and homework

3 rd	1	Understand the topic of lecture	Duodenum, Primary intestinal loop and mesenteries development.	PDF + PPt	Oral questions, daily quiz and homework
4 th	1	Understand the topic of lecture	Large intestine development.	PDF + PPt	Oral questions, daily quiz and homework
5 th	1	Understand the topic of lecture	Clinical correlates of the GIT	PDF + PPt	Oral questions, daily quiz and homework
6 th	1	Understand the topic of lecture	Liver and gallbladder development and their clinical correlates.	PDF + PPt	Oral questions, daily quiz and homework
7 th	1	Understand the topic of lecture	Pancreas and spleen development	PDF + PPt	Oral questions, daily quiz and homework
8 th	1	Understand the topic of lecture	Nasal and oral cavities development	PDF + PPt	Oral questions, daily quiz and homework
9 th	1	Understand the topic of lecture	Respiratory system development	PDF + PPt	Oral questions, daily quiz and homework
10 th	1	Understand the topic of lecture	Endocrine glands development (Pituitary gland, pineal body, thyroid gland, thymus gland, parathyroid gland, adrenal glands).	PDF + PPt	Oral questions, daily quiz and homework

10. Course Structure/Syllabus (Second Semester)

Week	Hours	Required learning outcomes	Name topic	Teaching Method	Evaluation Method
1 st	1	Understand the topic of lecture	Embryology of urinary system(kidneys and ureters)	PDF + PPt	Oral questions, daily quiz and homework
2 nd	1	Understand the topic of lecture	Embryology of urinary system (cloaca formation, urinary bladder)	PDF + PPt	Oral questions, daily quiz and homework
3 rd	1	Understand the topic of lecture	Embryology of urinary system (male and female urethra)	PDF + PPt	Oral questions, daily quiz and homework
4 th	1	Understand the topic of lecture	Embryology of urinary system (clinical correlates of the urinary system)	PDF + PPt	Oral questions, daily quiz and homework

5 th	1	Understand the topic of lecture	Embryology of the central nervous system(spinal cord development)	PDF + PPt	Oral questions, daily quiz and homework
6 th	1	Understand the topic of lecture	Embryology of the central nervous system(neural cell and glial cells formation)	PDF + PPt	Oral questions, daily quiz and homework
7 th	1	Understand the topic of lecture	Myelination of nerve fibers and development Autonomic nervous system	PDF + PPt	Oral questions, daily quiz and homework
8 th	1	Understand the topic of lecture	Parts of the brain(prosencephalon, mesencephalon and diencephalon)	PDF + PPt	Oral questions, daily quiz and homework
9 th	1	Understand the topic of lecture	Formation of brain ventricles, CSF formation and circulation	PDF + PPt	Oral questions, daily quiz and homework
10 th	1	Understand the topic of lecture	Clinical correlates of the CNS	PDF + PPt	Oral questions, daily quiz and homework

11. Infrastructure

(a) Required Textbooks

- 1- Sadler TW. Langman's Medical Embryology. 14th ed, Lippincott Williams & Wilkins. 2018.

(c) Electronic references

- Virtual electronic library.
- Google Scholar.

12. Curriculum Development Plan

The update is carried out within the limits of (15%) by including topics that are in line with scientific and practical modernity, and what researchers have reached.