Course plan

Year: 1404	**Semester:** ☐First, ■Second, ☐Summer	**Number of students:11**
Major: Medical Students – First Year	■Basic sciences, ☐Physiopathology	**Department:** Anatomical sciences
Course Title: Introduction to Anatomical Sciences	■Theoretical, ☐Practical	**Credit:2.24** **Code N.:** 201
Prerequisite: None	**Day & Time:** Saturday ۱۰-۱۲ Sunday 13-15	**Course type:**
Instructor: Dr Maryam Anjomshoa	**Office address:** Room 22	**Tel:** 09131062131
Email: Anjomshoa.m@gmail.com	**Response Hours and Days: Saturday 10-12**	**Student representative name and mobile number:**

Main objective: Familiarize students with the microscopic structure of cells, tissues, and organs in a healthy state and study methods for examining them. Acquaint students with normal embryonic development.

On completion of this course, the student will be able to:

Anatomy objective:

This course introduces students to the fundamental concepts of human anatomy and prepares them for further detailed anatomical studies. It emphasizes anatomical terminology,

Histology Objectives:

1. Students should be able to identify tools and methods used in histology by the end of the term.
2. Students should be familiar with the structure of cells and the four major tissues: epithelial, connective, nervous, and muscular. They should interpret the role of these tissues in forming the histological structure of organs and systems.
3. Students should be able to explain blood tissue, its components, and the hematopoietic tissues.
4. Students should recognize the importance of histology in medical treatment and explain changes in healthy tissues due to diseases.
5. Students should explain the relation between histology and other basic sciences, especially embryology, physiology, and pathology.

Embryology Objectives:

1. Students should understand meiosis and mitosis and explain the formation of gametes.
2. Students should explain the process of embryonic formation and the stages of its growth and development.
3. Students should recognize factors affecting the normal growth and development of the fetus in the uterus.
4. Students should be familiar with developmental abnormalities in different stages.
5. Students should relate their knowledge to congenital abnormalities in newborns and adults

References (Text books):

Histology:

1.Junqueira's Basic Histology: Text and Atlas, 17th Edition,2024

2. "Color Atlas of Histology" by Alex Stone, 5th Edition, 2020.

Embryology:

۱. langman's medical embryology 16th edition. by Thomas Sadler,
۲. The Developing Human by Keith Moore, last Edition. |

Student evaluation and the value related to each evaluation:

(The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learning outcomes)

ASSESSMENT TOOLS	From
Assignments	1
Quiz	1
Presence in online courses	-
Midterm Exam	10
Final Exam (Written exam)	8
TOTAL MARKS	**20**

Students responsibilities:

1. Be on time for class. 2. Actively participate in class discussions. 3. Be prepared for Q&A after each session. 4. Purchase the necessary textbooks. 5. Keep mobile phones off during class

Discipline and educational rules:

Course: Introduction to Anatomical Sciences

- Attendance in **both theoretical and practical** sessions is mandatory.
- More than **2 unexcused absences** from practical sessions may result in removal from the course.
- Arriving more than **15 minutes late** will be marked as absent.
- Students are expected to maintain **silence and order** during sessions.
- Attendance in **midterm and final exams** is compulsory.
- Absence from exams will result in a **score of zero**.
- Students must maintain **appropriate dress code and professional behavior** in all educational settings

Mid exam date: **Final exam date:**

Row	date	Time	Topic	Professor	References	Chapter	Pages
1	1404.1.16	2	Introduction to Anatomy - Understanding its importance in treatment and its close relation to medicine	Dr.Maryam Anjomshoa	.Junqueira's Basic Histology	1	
2	1404.1.17	2	Introduction to the cell: cell differentiation, cytoplasm, organelles.	Dr.Maryam Anjomshoa	"	1	
3	1404.1.23	2	Introduction to cellular components: cytoskeleton, nucleus, chromatin, nucleoplasm	Dr.Maryam Anjomshoa	"	1,2	
4	1404.1.24	2	Introduction to epithelial tissue: cell shapes and characteristics, types of epithelium.	Dr.Maryam Anjomshoa	"	3	
5	1404.2.6	2	Introduction to epithelial tissue: gland characteristics, gland types, general biology of epithelial tissues	Dr.Maryam Anjomshoa	"	3	
6	1404.2.7	2	Introduction to connective tissue: cell types, fibers, ground substance. Adipose tissue	Dr.Maryam Anjomshoa	"	4,5	

7	1404.2.13	2	Introduction to cartilage: chondrocytes, cartilage types.	Dr.Maryam Anjomshoa	"	6	
8	1404.2.14	2	Introduction to bone: bone components, bone types, bone remodeling, joints.	Dr.Maryam Anjomshoa	"	7	
9	1404.2.20	2	Introduction to nervous tissue: nervous tissue development, neurons, neuroglia.	Dr.Maryam Anjomshoa	"	8	
10	1404.2.21	2	Introduction to nervous tissue: central and peripheral nervous systems, meninges, autonomic system.	Dr.Maryam Anjomshoa	"	8	
11	1404.2.21	2	Introduction to muscle tissue: muscle types, muscle spindles, muscle regeneration.	Dr.Maryam Anjomshoa	"	9	
Midterm Exam							
12	1404.2.27	2	History and importance of embryology and gametogenesis.	Dr.Maryam Anjomshoa	langman's medical embryology	1.2	
13	1404.2.28	2	Female reproductive cycles: follicle development, ovulation, corpus luteum formation	Dr.Maryam Anjomshoa	"	2	
14	1404.2.31	2	Second week of development: bilaminar germ disk, implantation, formation of yolk sac	Dr.Maryam Anjomshoa	"	3	
15	1404.3.3	2	Third week of development: trilaminar germ disk, notochord formation.	Dr.Maryam Anjomshoa	"	4	
16	1404.3.4	2	Embryonic period: organogenesis, angiogenesis, and vasculogenesis.	Dr.Maryam Anjomshoa	"	5	
17	1404.3.10	2	Fetal period: months 3 to birth, teratogens, fetal abnormalities.	Dr.Maryam Anjomshoa	"	6	
18	1404.3.11	2	Formation of placenta and fetal membranes, twin development.	Dr.Maryam Anjomshoa	"	6	
19	1404.3.17	2	Congenital disorders. Postnatal growth.	Dr.Maryam Anjomshoa	"	7	