

توصيف مساق علم الأنسجة (Histology)

1. معلومات مدرس المساق (Instructor)

اسم (مدرس / منسق) المساق :	Dr. Rana Almuher
الساعات المكتنبة : المكتنبة : المكتنبة : المكتنبة :	(Sunday, Tuesday, Thursday) 1:00 – 12:00 Wednesday 1:00 – 2:00 Ibn Rushd Building
رقم المكتب والرقم الفرعي :	
البريد الإلكتروني :	<a href="mailto:raa076@aabu.edu.jo">raa076@aabu.edu.jo</a>
مساعد البحث والتدريس/المشرف/الفاقي (إن وجد):	-----

2. وصف المساق (Course Description)

This course provides an introduction to the microscopic anatomy of animals and human body. The animal body is composed of a vast diversity of cell types, which are in turn organized into tissues and organs that carry out the complex functions of life. It introduces the cellular architecture of tissues and provides deep insights into the workings of the body. The course will begin with the classification of tissue types and progress through the structure of organs. By the end of the course, students will be able to examine images of a tissue section and identify the types of tissues present, their roles, and the relationship between structure and function.

3. بيانات المساق (Course Title)

رقم المساق: 0404463	اسم المساق: علم الأنسجة	المستوى: السنة الرابعة
طبيعة المساق: نظري	المتطلب السابق: علم الحيوان، علم وظائف أعضاء الحيوان	وقت المحاضرة: 11:00 – 12:00
العام الجامعي: 2019/2020	الفصل الدراسي: الأول	عدد الساعات الدراسية: 3

4. أهداف المساق (Course Objectives)

To provide basic knowledge concerning the structure and function of normal cells, tissues and organs in animals and human. The course deals mainly with basic tissues (epithelium, connective tissue (including: adipose tissue, bone and cartilage), muscles and nerves). The normal microscopic and submicroscopic structure of cells and tissues of the body are described. To differentiate the various histological structures from each other. To uncover the functional correlations with some elements of clinical significance.

5. مخرجات التعلم (Intended Student Learning Outcomes)  
(المعرفة والمهارات والكفايات)

يفترض بالطالب بعد دراسته لهذا المساق أن يكون قادراً على:

- 1- Recognize and differentiate the different types of animal tissues.
- 2- Identify the differential characteristics of cells, tissues, and organs.
- 3- Explain the relationships of structure and function.

- 4- Compare normal with abnormal tissues at the microscopic level.  
 5- Demonstrate critical thinking skills to describe possible pathologic outcomes of dysfunctional cells and tissues.  
 6- Develop communication skills by effective interaction with peers and academic staff.

6. محتوى المساق (Course Content)

Week	Topics	Chapter
1	Overview of the Course	
2	Epithelial Tissue	4
3	Nervous Tissue	9
4	Muscular Tissue	10
5	<b>First Exam</b>	
6	Connective Tissue	5
7	Cartilage	7
8	Circulatory System	11
10	Urinary system	19
11	<b>Second Exam</b>	
12	Digestive System	15
13	Respiratory System	17
14	Male Reproductive System	21
15	Female Reproductive System	22
16	Skin	18
	<b>Final Exam</b>	

7. استراتيجيات التعليم والتعلم وطرق التقويم  
 (Teaching and learning Strategies and Evaluation Methods)

ت	مخرجات التعلم	استراتيجيات التدريس	أنشطة التعلم	نوع التقويم/القياس (امتحان/عروض صفية/مناقشة/واجبات)
1	To identify the microscopic anatomy of the major tissue types and organ systems of the animal body.	Powerpoint presentations Textbook	To study histological micrographs Extra curriculum reading	Histology exercises and quizzes
2	To relate body systems and organs with their tissues structure	Powerpoint presentations	Discussions Histology Atlas	Homework
3	To discuss structure/function connection	Using animations to illustrate basic histological principles	Interpreting micrographs, and games exploring the structure/function relationship	Discussions
4	To differentiate normal histological sections from pathological ones	Interpreting micrographs	Team work & Discussions	Histology exercises
5	To value bodily specializations related to animal physiology and behavior.	, integrate histological structure with physiological function	Discussions	Homework

homework assignments & Students` prepared presentations	Team work & class Discussions	studying histological sections, and micrographs	To develop communication skills, logical reasoning, and verbal communication.	6
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### 8. تقييم الطلبة (Assessment)

توزيع الدرجات لكل أسلوب	توقيت التقييم	الأساليب المستخدمة
25	الأسبوع الخامس	2-امتحان تحريري أول
25	الأسبوع الحادي عشر	2-امتحان تحريري ثاني
50	أسبوع الامتحانات النهائية	3-امتحان تحريري نهائي

### 9. الكتاب المقرر (Text Book)

<b>Text Books:</b> Junqueira's Basic Histology, Text and Atlas, 14th edition, By Anthony L. Mescher	المرجع الرئيس
A. L. Mescher	المؤلف
	الناشر
2016	السنة
14 <sup>th</sup> edition	الطبعة
	الموقع الالكتروني للمرجع

### 10. المراجع الإضافية (References) (وتشمل الكتب والبحوث المنشورة في الدوريات او المواقع الالكترونية)

<i>Histology: A text and atlas</i> M.H. Ross and W. Pawlina. 7 <sup>th</sup> ed., 2015 (or earlier editions)	1
Color Textbook of Histology, 4th edition, by Leslie P. Gartner and James L. Hiatt. Recommended reading	
Basic Histology, 9 <sup>th</sup> ed., Junqueira, Carneiro, and Kelley. Bloom and Fawcett: A Textbook of Histology, 12 <sup>th</sup> ed. D.W. Fawcett. Essential Histology, D. Cormack. Ham's Histology, 9 <sup>th</sup> ed., D. Cormack	2
Web based resources: <a href="http://www.histologyguide.org/index.html">http://www.histologyguide.org/index.html</a>	3