

## Anatomy of gastrointestinal system course plan

<b>Semester:</b> 4 <sup>th</sup>	<b>Year:</b> 2023-2024
M.D. program Course Syllabus	
<b>Course Title:</b> Anatomy of gastrointestinal system Theoretical & Practical	<b>Department:</b> Department of Anatomical Sciences
<b>Course Code:</b> 1234089 and 1234019	<b>Instructor:</b> Dr. Hossein Salehi: Histology Dr. Vajihe Asgari: Embryology Dr. Zamani: Anatomy
<b>Location of teaching the course:</b> Class 202	<b>Credit Hours:</b> 25.5 Hours (Theo)/ 17 Hours (Prac)
<b>Prerequisite:</b> none	<b>Credit Units:</b> 2 (1.5 Theo. and 0.5 Prac.)
<b>Office address:</b> Faculty of Medicine, Department of Anatomical Sciences	
Tel: 031-37929157	Email: ho_salehi@med.mui.ac.ir
Number of students :82	
<b>The General Purpose of the Lesson:</b>	
The focus of this gastrointestinal anatomy course is to teach you about the development, structures and functions of the gastrointestinal system and its accessory organs.	
<b>Learning outcomes:</b>	
On satisfying the requirements of this course, students will have the knowledge and skills to:	
<ol style="list-style-type: none"> <li>1. Recognize the oral cavity and describe its parts</li> <li>2. Identify and describe the soft palate and pharynx and their muscles and innervation</li> <li>3. Discuss all layers of the abdominal wall</li> <li>4- Describe the muscles of the abdomen and explain the anatomy of inguinal canal</li> <li>5- explain the inguinal hernia and its categories</li> <li>6- Describe the structure and function of stomach and duodenum</li> <li>7- Describe the anatomy of large and small intestine and explain the appendicitis</li> <li>8- Explain the anatomy of the pancreas and liver and their arterial supply and innervation</li> <li>9- Describe the location of gall bladder and its ducts, explain the anatomy of portal system</li> <li>10- Identify and recognize the histological structure of digestive system</li> <li>11- Identify and recognize the histological structure of organs associated with the digestive tract</li> <li>12- describe the development of digestive system and associated organs</li> </ol>	
<b>References (Text books):</b>	
<ol style="list-style-type: none"> <li>1- Gray's anatomy for students, By: Richard L Drake</li> <li>2- <b>Histology textbook:</b> chapters <b>15</b> and <b>16</b> of Basic histology: Text &amp; Atlas By: Junqueira, LS &amp; Carneiro, J (preferably the latest edition).</li> <li>3- <b>Embryology Textbook:</b> Chapter <b>15</b> of Langman's Medical Embryology By: T. W. Sadler (preferably the latest edition)</li> </ol>	

## ASSESSMENT TOOLS

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

ASSESSMENT TOOLS	From 20
Midterm Exam	8
Final Exam	12
Class activities	2
<b>TOTAL MARKS</b>	<b>20</b>

ASSESSMENT TOOLS	From 20
Practical	18
Class activities	2
<b>TOTAL MARKS</b>	<b>20</b>

## Students responsibilities:

- 1- Prepare for the class in advance
- 2- Break down every system into its basic components.
- 3- Use the lectures outline (PowerPoint presentations) and handouts (if any) as a guideline for your study.
- 4- Study the course components using the required book, atlas and the websites.
- 5- Reconstruct the system so that it is functional and understandable.
- 6- Students are expected to spend 2-3 hours studying for each hour in class.
- 7-By now the students are expected to end up with an understanding of the subject.
- 8-The students' understanding will be evaluated and given a grade using MCQs and/or any form of evaluation.

## ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class.

- Absence will result in a 0.5-point deduction on the final score for each session.
- If a student arrives late(5 minutes) in a class he'll be marked as LATE and two late will be considered as one absent.
- If a student arrives after 10 minutes he'll be marked as absent.
- Absence of more than three session will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

## Department's Attitudes

### Ethics, Critical thinking, hard work and discipline:

Examination attitudes Any evidence of cheating on a test will result in the student receiving (0 mark) for the test and will be announced through the lectures so all the students will be informed.

The instructor will be the final authority on whether cheating has occurred.

Cellular phones and notebooks are band and disruptive and are not allowed during the exam periods because they mean an act of cheating, therefore students are advised to enter the exams without them.

Mid exam date:

Final exam date:

## COURSE SYLLABUS

	Chapter	Page	Course topics	Time (Hour)	Date
	8	1087	Introduction to digestive system/ oral cavity	2	01/09/2023
	8	846/1040	Soft palate and pharynx	2	08/09/2023
	3	280	Esophagus/abdominal wall	2	15/09/2023
	4	280/292	Muscles of the abdomen/inguinal canal	2	22/09/2023
	4	299	Inguinal hernia	2	29/09/2023
	4	310	Stomach/duodenum	2	05/10/2023
	4	312	Small and large intestine and their arterial supply/appendicitis	2	12/10/2023
	4	328	Pancreas / liver	2	19/10/2023
	4	331	Gall bladder/ portal system	2	26/10/2023
	15	230-240	Development of gut tube (esophagus and stomach)	2	03/11/2023
	15	241-255	Development of small and large intestine, liver, pancreas and gallbladder	2	10/11/2023
	15	295-314	Histology of oral cavity, esophagus and stomach	2	17/11/2023
	15-16	314-335	Histology of small intestine, large intestine, anal canal, appendix and salivary glands	2	24/11/2023
	16	336-346	Histology of pancreas and liver and gallbladder	2	31/11/2023

## Practical

	Slides	Course topics	Time (Hour)	Date
	-	Oral cavity/ pharynx/	2	1 <sup>st</sup> Week
		Esophagus/ Stomach	2	2 <sup>nd</sup> Week
		Intestinal models	2	3 <sup>rd</sup> Week
		Abdominal wall	2	4 <sup>th</sup> Week
		Inguinal canal in cadaver	2	5 <sup>th</sup> Week
	Slides of lip, tongue, esophagus and stomach	GI Histology	2	6 <sup>th</sup> Week
	Slides of duodenum, jejunum, and ileum, colon and appendix	GI Histology	2	7 <sup>th</sup> Week
	Slides of salivary glands, pancreas and liver	GI Histology	2	8 <sup>th</sup> Week