

**Medical School**  
**Course plan format for the first semester of 98-99**

**Course title:** Anatomy of urogenital system and endocrine system

**The audiences:** International medical students, 4<sup>th</sup> semester

**Total credit:** 1.1

**The time to answer of question:** Wednesdays 8.15-10.15

**The time of the lesson:** Monday 10.15-12.15

**Teacher:** Dr. Ali Ghanbari

**Prerequisite:** Anatomy of Musculoskeletal system, Anatomy of digestive, cardiovascular and respiratory systems, Nero anatomy

**General goals:**

To explain the location, the relation, blood and nerve supply of anatomical structures of urinary system, also male and female reproductive system.

**General goals of sessions:**

- 1- To describe the urinary system
- 2- To describe the urinary system (continued)
- 3- To describe boundaries of pelvis
- 4- To describe male reproductive system
- 5- To describe male reproductive system (continued)
- 6- To describe female reproductive system
- 7- To describe female reproductive system (continued)
- 8- To describe pituitary gland
- 9- To describe Thyroid gland
- 10- To describe pancreas gland
- 11- To describe suprarenal gland

**General goals of 1<sup>th</sup> lesson:**

To describe the urinary system

**Special goals of 1<sup>th</sup> lesson:**

To teach the location of components of urinary system. Explain the details about the kidneys regarding their exterior and interior. In the exterior, it explains the layers, relations, and the surfaces. In the interior, the internal layers discuss; cortex and nephron, medulla and collecting tubules, calices. Also, presents brief review of their works.

**General goals of 2<sup>nd</sup> lesson:**

To describe the urinary system (Continued)

**Special goals of 2<sup>nd</sup> lesson:**

To teach ureters, urinary bladder, urethra and to clarify their relationship with neighboring structures. To describe their internal structure and brief review of their works.

**General goals of 3<sup>rd</sup> lesson:**

To describe the boundaries of pelvis

**Special goals of 3<sup>rd</sup> lesson:**

To describe the skeleton, fascia, and bones of pelvic cavity with details. To brief review of the anatomical structures in male and female, respectively, in pelvis. To illustrate pelvic indices such pelvic inlet, pelvic outlet, zero point of delivery.

**General goals of 4<sup>th</sup> lesson:**

To describe the male genital systems

**Special goals of 4<sup>th</sup> lesson:**

To teach the location of components of male reproductive system including; penis, testis, epididymis, vas deferens, seminal vesicle and prostate and to clarify their

relationship with neighboring structures.

**General goals of 5<sup>th</sup> lesson:**

To describe the male genital systems (continued)

**Special goals of 5<sup>th</sup> lesson:**

To describe histological features of components of male reproductive system and brief review of their works.

**General goals of 6<sup>th</sup> lesson:**

To describe the female genital systems

**Special goals of the 6<sup>th</sup> lesson:**

To present the location of components of female reproductive system including; vagina, uterus, uterine tubes, and ovaries and to clarify their relationship with neighboring structures. To describe their internal structure and brief review of their works.

**General goals of the 7<sup>th</sup> lesson:**

To describe the female genital systems (continued)

**Special goals of 7<sup>th</sup> lesson:**

To describe histological features of components of male reproductive system and brief review of their works.

**General goals of the 8<sup>th</sup> lesson:**

To understand the anatomy and radiology of pituitary gland.

**Special goals of the 8<sup>th</sup> lesson:**

To describe the location and shape of hypophysis, portal venous of the gland. The arterial and nerve supply of pituitary gland. Its secretion and radiological features in normal and pathologic conditions.

**General goals of the 9<sup>th</sup> lesson:**

To understand the anatomy and radiology of thyroid gland.

**Special goals of the 9<sup>th</sup> lesson :**

To describe the location and shape of thyroid gland. The arterial and nerve supply of its secretion and radiological features in normal and pathologic conditions.

**General goals of the 10<sup>th</sup> lesson:**

To understand the anatomy and radiology of suprarenal gland.

**Special goals of the 10<sup>th</sup> lesson :**

To describe the location and shape of suprarenal gland. The arterial and nerve supply of suprarenal gland. Its secretion in each different three parts and radiological features in normal and pathologic conditions.

**General goals of the 11<sup>th</sup> lesson:**

To understand the anatomy and radiology of pancreas.

**Special goals of the 11<sup>th</sup> lesson :**

To describe the location and shape of pancreas. The arterial and nerve supply of pancreas. Its secretion in each different two histological parts, and radiological features in normal and pathologic conditions.

**At the end of the class, the student's abilities would be:**

- 1- Able to describe the components, location, relations, and external features of kidney
- 2- Able to describe the components, location, relations, and external features of ureter, urinary bladder, urethra. Give brief review of the work of urinary system.
- 3- Able to describe the components, location, relations, and external features of male reproductive system
- 4- Able to describe the histology and brief physiology of male reproductive system
- 5- Able to describe the components, location, relations, and external features of female reproductive system
- 6- Able to describe the histology and brief physiology of female reproductive system
- 7- Able to describe the hypophysis; anatomy, histology and radiology
- 8- Able to describe the Thyroid gland; anatomy, histology and radiology
- 9- Able to describe the adrenal gland; anatomy, histology and radiology
- 10- Able to describe the pancreas; anatomy, histology and radiology

**References:**

- 1- Gray's anatomy for students; trunk
- 2- Sobotta's atlas of anatomy, Volume II
- 3- Longman human embryology
- 4- Junqueira's Basic Histology
- 5- Netter's Concise Radiologic Anatomy

**Teaching method:**

Lecture, Mind map, answer and question, problem solved, group teaching (in practical class)

**Educational tools:**

Models, fixed cadavers, Video Projector and Whiteboard

**Assessment and evaluation of the test**

<b>Considered time For answering</b>	<b>date</b>	<b>Share of total (score (in percent</b>	<b>Method</b>	<b>Test</b>
15 min for each quiz	End of each session	2	Short explanation and Multi-choice	<b>Quiz</b>
40 min	Final	14	Multi-choice	<b>Final Exam</b>

**Classroom roles and student expectations:**

The presence of all students in all sessions is mandatory and students must attend the

each session.

**Schedule for anatomy of urogenital system**

<b>Lecturer</b>	<b>Topic</b>	<b>Sessions</b>
Dr. Ali Ghanbari	Urinary system	۱
Dr. Ali Ghanbari	Urinary system (continued)	۲
Dr. Ali Ghanbari	Male reproductive system	۳
Dr. Ali Ghanbari	Pelvic cavity	۴
Dr. Ali Ghanbari	Male reproductive system (continued)	۵
Dr. Ali Ghanbari	Female reproductive system	۶
Dr. Ali Ghanbari	Female reproductive system (continued)	۷
Dr. Ali Ghanbari	Pituitary gland	8
Dr. Ali Ghanbari	Thyroid gland	9
Dr. Ali Ghanbari	Suprarenal gland	10
Dr. Ali Ghanbari	Pancreas gland	11

