

University of Babylon

College of Medicine

Department of medical physiology

The curriculum for Msc 1st course for medical physiology Department

Advance physiology (6units , 90 hours)

1. Prof.Farah Nabil Abbas (6hrs)
2. Assist. Prof. Zahid Mohammed Ali (6 hrs)
3. Asst.Prof. Basim Abdalal (6hrs + 12 hr)
4. Prof. Sameer Swadi (12 hrs).
5. Assist Prof. Nawrass Jassim (15 hrs)practical session
6. Assist Prof. Ahlam Kadhim (10 hr)
7. Assist Prof. Zainab Falah (10 hr)
8. Assist Prof Ekhlas Hatem (12 hr)

No. of weeks	Name of lecturer	Theoretical Hours		Practical Hours	
		Theory Lecture Topics	Hours per weeks	Practical Session Topics	Hours per weeks
1	Asst.Prof. Ahlam Kadhim+ Assist Prof. Zainab Falah	The Cardiovascular system -Introduction to cardiovascular physiology. THE MYOCARDUM	4	-ABC of ECHO	2
2	=	THE ELECTROCARDIOGRAPHY	=	Heart Sound -	2
3	=	CARDIAC OUTPUT	=	ECG. - -	2
4	=	CARDIAC CYCLE AND HEART SOL INDS	=	Blood - pressure -	2
5	=	Properties OF VASCULAR SYSTEM	=	Arterial Pulse	2
6	Prof.Farah nabil abbas.	Physiology of the muscle Introduction types of muscles. Skeletal muscles, structure.	3	-	2

7		.Motor units .Excitability Mechanical response of the - muscle	3	CPR	2
8	Assist. Prof. Zahid Mohammed Ali	Simple muscle twitch. -Type of contraction, muscle fatigue. -Summation of muscles contraction - Effect of two muscle stimuli	2		2
9	Ass.prof Ikhlas hatim	Introduction to the gastrointestinal tract. -G1 Hormones. -Salivary secretion, gastric secretion, pancreatic secretion. .-Secretion of bite	=	Artificial - respiration -	2
10	=	. Secretion of the small intestine. -Secretion of large intestine, Basic principles of gastrointestinal absorption Absorption in the small intestine.	=	-	2
11	=	- Regulation of gastrointestinal .function -Gastrointestinal motility.	2	-	2
13	Asst.Prof. Basim Abdalal	Body fluids, volume and distribution. -Body Water func-Body fluid composition tions.	6		2
14	=	-	6	-	2

		Body fluid dynamics. -Edema. -Composition and function of blood cell. -Hemoglobin and hemoglobin variants -Iron metabolism, anemia.			
15	=	--Destruction of the red blood cell. -The platelets -The immune system, allergy. -The red blood cell. Specific Functions of the different variants. -Blood group and blood transfusion. -The plasma composition and function, the fibrinolytic activity of the plasma.. Physiological anatomy of respiratory system Lung volumes and capacities Lung compliance and pressures Physiology of respiratory disorders	=		2
	Prof. Sameer Swadi				

Table of Msc .1st course

No	Subject	No. of Unit	No. of hours
1	Advance physiology (Theory & practical)	6	90
2	Biochemistry	1	15
3	immunology	1	15
4	Biostatistics	1	15
5	English	1	15
6	histology	1	15
	Medical physics	1	15
	Sum	12	180

اللجنة العلمية في الفرع

أ.د. عبد الكريم جواد
رئيسا

أ.م.د. زاهد محمد علي
عضوا

اد نصير جواد
عضوا

اد سمير سوادى
عضوا

أ.د. فرح نبيل عباس
عضوا

University of Babylon
College of Medicine
Department of medical physiology

The curriculum for Msc 2nd course for Department of medical physiology

Advance physiology(6units ,90 hrs)

(Theory &practical)

- 1. Prof.farah nabil abbas (10 hr)**
- 2. Prof.Ban Jabber (12hr)**
- 3. Prof. hanan abdul jabbar (12 hr)**
- 4. Prof. Naseer jwad hammad (10 hr)**
- 5.Assist. Prof. Zahid Mohammed Ali (10 hrs)**
- 6-Assist Prof. Nawrass Jassim (10 hr + 15 hrs)practical session**
- 7-Prof. Sameer Swadi (11 hrs).**

No	Name of lecturer	Theoretical Hours		Practical Hours	
		Theory Lecture Topics	Hours per weeks	Practical Session Topics	Hours per weeks
1	Prof. hanan abdul jabbar	Introduction to endocrinology	4	- ABC of Nerve conduction study	2
2	=	Physiology ofAdrenal gland	=	ABC of EMG - -	2
3	Asst.Prof. Ban Jabir	Physiology of thyroid gland	=	- ABC of EEG	2

4	=	Endocrinology of pancreas	4	-PCR - -	2
5	=	Physiology of female reproduction	2	Temperature - Measurement	2
6	Prof. Sameer Swadi	<p>- RENAL PHYSIOLOGY</p> <p>-Functional anatomy of the kidney.</p> <p>-Autoregulation of renal blood flow.</p> <p>Mechanism of glomerular filtration.</p> <p>-Measurement of glomerular filtration rate.</p> <p>Reabsorption and -secretion in the tubules.</p> <p>-Water and sodium homeostasis,</p> <p>-Effects of excessive intake.</p> <p>.</p> <p>-Effects of water loss.</p> <p>-Regulation of tubular reabsorption of sodium.</p> <p>-Regulation of potassium balance</p> <p>Diuretics</p> <p>The hydrogen ion and PH.</p> <p>-Fundamental</p>	=	Respiratory - volumes PFT - -	2

		chemistry of acids and bases. -Concept of pH and H⁺. H⁺ of body fluids - .			
7	=		4		2
8	Prof. farah nabil	The nervous system (Central nervous system): -Physiology of the spinal cord reflexes. The cerebellum and its role in motor control and movement.	5	- VIDUS	2
9	=	--Physiology of the hypothalamus and limbic system. The brain stem and reticular formation. -Wakefulness and sleep.	=	- Mini VIDUS	2
10	Assist. Prof. Zahid Mohammed Ali	--Cerebra control function, motor functions and sensory functions. -Conditioned reflexes. -E.E.C. -Speech. -Memory.-	=	ELISA -	2
11	- Assist Prof. Nawrass Jassim	The autonomic nervous system:	=	-	
12	Prof. Naseer jwad hammad	Male Reproductive system	4	-	2

Table of 2nd course

Subject	No. of Unit	No. of hours
Advance physiology	6	90
immunology	1	15
Medical Biotechnology	1	15
Biochemistry	1	15
Pathology	1	15
pharmacology	1	15
Genetics	1	15
Sum	12	180

Total hours of Msc program

No	Subject	No. of Unit	No. of hours
1	1 st course	12	180
2	2 nd course	12	180
3	Thesis	12	
Sum		36	360

اللجنة العلمية في الفرع

أ.د. عبد الكريم جواد
رئيسا

أ.م.د. زاهد محمد علي
عضوا

أ.د. نصير جواد
عضوا

أ.د. سمير سوادي
عضوا

أ.د. فرح نبيل عباس
عضوا