

## Department of Physiology

Vocabulary of the curriculum of the dept. of Physiology for the academic year 2011-2012			
Lecture	No. of Hour		No. of Unit
	Theo.	Prac.	
1 <sup>st</sup> Stage	60	60	6
2 <sup>nd</sup> Stage	90	120	11
Total	150	180	17

Vocabulary of the curriculum of dept. of Physiology 1 <sup>st</sup> stage for the academic year 2011-2012				
Lecture	No. of Hour		No. of Unit	Article
	Theo.	Prac.		
Forces on and in the body Physics of the skeleton	15	22	1.73	Forces on and in the body. -Frictional forces Bone composition physical basis of heat and temperature, thermometry and temperature scales, -Conservation of energy in the body -Energy changes in the body Measurement of pressure in the body Pressure inside the skull - Pressure in the urinary bladder. -hyperbaric oxygen therapy).
Heat and cold in medicine Energy, work, and power of the body and pressure				
physics of lung, cardiovascular system and Electricity within the body	15	8	1.27	Function of the breathing system. - Compliance. Surface tension. Major components of the cardiovascular system. Work done by the heart. Pressure across the blood vessel wall (trans mural pressure) Blood flow (laminar and turbulent). The nervous system and the neuron ECG,EEG,EMG,ERG,EOG
Forces on and in the body. -Frictional forces Bone composition physical basis of heat and temperature, thermometry and temperature scales, -Conservation of energy in the body -Energy changes in the body Measurement of pressure in the body Pressure inside the skull - Pressure in the urinary bladder. -hyperbaric oxygen therapy).	30	30	3	Biopotentials of the heart Electrodes of ECG Defibrillation Pacemakers Introduction Electrical shock magnetism in medicine The body as a drum (percussion in medicine) Ultrasound to measure motion Sensitivity of the ear. Hearing tests. Deafness and hearing aids. Measurements of light and its units Lasers in medicine - Absorption of X-ray, contrast media. - X-ray image (penumbra, grid, intensifying screens)
Total	60	60	6	

Vocabulary of the curriculum of dept. of Physiology 2 <sup>nd</sup> stage for the academic year 2011-2012				
Lecture	No. of Hour		No. of Unit	Article
	Theo.	Prac.		
to Introduction Body & physiology Fluids Blood physiology	10	60	2.7	-Functional Organization of Human body -RBC, Anemia, & polycythemia -Infection - Blood types Homeostasis
Endocrinology Reproduction, and	18	10	1.5	Pituitary Hormones Thyroid Hormones Male Reproductive Physiology Female Reproductive Physiology
Respiratory	16	10	1.4	Pulmonary Ventilation Gas Exchange Transport of O <sub>2</sub> & CO <sub>2</sub> Regulation of respiration
Gastrointestinal and digestion physiology	20	0	1.3	General principals of GIT - Population & mixing of food - Secretary function of GIT - Digestion & Absorption of GIT
Physiology of muscles Physiology of the nervous system Special senses CNS	24	0	1.6	Skeletal muscle Smooth muscle Organization of CNS Somatic sensation The eye The sense of hearing Taste & smell Motor function of CNS Cerebellum & Basal ganglia Cerebral cortex Behavioral & motivational state of brain activity - Cerebral blood flow
ANS Cardiovascular system Renal physiology & acid base balance	32	10	2.5	Organization of ANS Autonomic reflex - The heart - The cardiac cycle - ECG - The circulation - Local & hormonal control of blood flow Body fluid - Urine formation by the kidney
Total	120	90	11	

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