جامعة الكفيل
University of Alkafeel

الخطة الدراسية

كلية طب الاسنان / جامعة الكفيل / العام الدراسي 2020 – 2021

المرحلة الدراسية:	المرحلة الثانية
التخصص:	General Physiology
اسم المادة الدراسية باللغة العربية:	علم فسلجة الانسان
اسم المادة الدراسية باللغة الإنجليزية:	Human Physiology
اهداف المادة:	At the end of the school year, the student will be ready with a definition of physiognomy, and he will be fully aware of the functions of all organs in the human body, their locations and importance, and he will understand all the mechanisms of the body from the manufacture of blood cells, respiration, digestion processes, hormones and others.
وصف المادة:	In the science of physiology we use some devices to measure life functions in human bady.
عدد الساعات النظرية:	60 hour
عدد الساعات العملية:	60 hour
عدد الوحدات:	6
اسم التدريسي باللغة العربية:	فاطمه بلاسم عزيز
اسم التدريسي باللغة الإنجليزية:	Fatimah Balasim Azeez
اللقب العلمي:	مدرس مساعد
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رقم الهاتف الجوال (WhatsApp):	07740170540

المنهج المقرر / الجزء النظري:

Week	Syllabus
1	Functional organization of the human body & the control system of the internal environment.
2	General function, the plasma composition & functions, red blood cells, genesis of r. b. c., regulation of r.b.c. production.
3	Formation of hemoglobin, iron metabolism, structure of hb., properties types, destruction of r.b.c.
4	White blood cells, genesis of w.b.c., morphology & general properties classification &functions. Hemostasis & blood coagulation, events in hemostasis, mechanisms of blood coagulation.
5	Physiology of respiration Pulmonary ventilation, respiratory pressures, the work of breathing.
6	Ventilation of the alveoli, the dead space, diffusion of gases through the respiratory membrane. The respiratory unit, the respiratory membrane.
7	Regulation of respiration, the respiratory center , neural regulation & chemical regulation of respiration respiratory abnormalities. Hypoxia, cyanosis, dyspnea, hypercapnia.
8	Physiology of kidney & body fluids.
9	The nephron. Blood supply of the nephron, innervating of the renal vessels, filtration. mechanisms of tubular reabsorption & secretion.
10	Physiology of the cardiovascular system
11	Anatomy of cvs, anatomy of the heart, cardiac muscle physiology.
12	Cardiac cycle, ecg, systole & diastole. Heart rhythm & cardiac muscle action potential.
13	Physiology of muscle & nerve.
14	General physiology of the cell. Ions & ions transport.
15	Anatomy of the nerve & fiber. Electrical physiology of nerve fiber. Local anesthesia & nerve fiber action potential .
16	Anatomical physiology of the nerve fiber. Types of muscle fiber. Contraction of muscle fibers. Energy sources.
17	Physiology of endocrine
18	Nature of hormones, function of hormones, mechanism of action

19	**Hypothalamus**
20	**The pituitary gland, hormones of the anterior lobe, abnormal secretion, hormones of posterior lobe.**
21	**The thyroid gland, function of the thyroid hormones. Diseases of the thyroid gland.**
22	**The parathyroid glands Absorption of calcium &phosphate, metabolic factors in development of teeth & mineral exchange, abnormalities of parathyroid glands.**
23	**The adrenal gland, mineralcorticoid & glucocorticoid hormones, abnormalities of adrinocortical secretion.**
24	**Pancreas gland, pineal gland.**
25	**Physiology of the gastrointestinal tract.**
26	**Movements of the food in the GIT, swallowing, gut innervating, mastication, Mastication , saliva, secretions of the stomach. Secretions of the small intestine.**
27	**Digestion of the food, absorption of the food through the alimentary canal.**
28	**Physiology of the nervous system: levels of integration higher brain level (cerebrum & cerebral cortex), spinal cord, lower brain level (cerebellum & brain stem).**
29	**Somatosensory system: types and classification of receptors, types of (pain sensation, thermal sensation touch & pressure sensations).continued on somatosensory system, motor system (spinal cord)**
30	**Chemical sensation : olfactory sens. (smelling), gustatory sens. (taste). Special sensation : hearing , vision : autonomic nreve system : sympathetic & parasympathetic systems.**

المنهج المقرر / الجزء العملي:

Week	Syllabus
1	**Blood physiology**
2	**Blood smear**
3	**RBC count**
4	**WBC count**
5	**Diffrential wbc count**

6	**Blood groups**
7	**Hb**
8	**ESR**
9	**Packed cell voloum**
10	**Blood pressure**
11	**Determination of bleeding time and clotting time**
12	**Electrocardiogram (ECG)**
13	**Platelets counting**
14	**Some experiments on vision**
15	**Insulin regulation of blood glucose**

المصادر:

المراجع الرئيسية:

[1] Guyton-and-Hall-Textbook-of-Medical-Physiology-13th-Ed-2015

[2] Ganong's Review of Medical Physiology

المراجع المساعدة:

[1] Lab Manual for Practical Physiology Adopted by the Department