



UNIVERSITY OF NAIROBI
FACULTY OF VETERINARY MEDICINE
DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY
FIRST SEMESTER LECTURE SCHEDULE FOR BACHELOR OF VETERINARY
MEDICINE I, 2021/2022
JVP 101: PHYSIOLOGY I

Week	Date	Day	Time	Topic	Lecturer
1	20th – 24th Sept. 2021			Orientation	All
2	27th Sept-1st Oct. 2021			ICT training	ICT staff
3	05/10/21	Tue	9:00 am -10:00 am	Introduction to physiology	Prof. Mathiu
			10:30 am -12.30 pm	Cell physiology and biophysics: cell structure and	"
	06/10/21	Wed	8:00 am - 10:00 am	Membrane Properties and transport mechanisms	"
	07/10/21	Thur	2:00 pm - 5:00 pm	Homeostatic mechanisms	"
4	12/10/21	Tue	9:00 am - 10:00 am	Homeostatic mechanisms	"
			10:30 am - 11.30 am	Control systems of the body: positive and negative feedback mechanisms.	"
			11:30 am -12:30 pm	Tutorial/Assessment Quiz	"
	13/10/21	Wed	8:00 am - 10:00 am	Body fluids: classification, composition, functions and fluid	Dr. Kaluwa
	14/10/21	Thur	2:00 pm -5:00 pm	Body fluid regulation	Dr. Kaluwa
5	19/10/21	Tue	9:00 am - 10:00 am	Body fluid regulation	"
			10:30 am - 12:30 pm	Body fluid regulation Tutorial/Assessment Quiz	"
	20/10/21	Wed	8:00 am - 10:00 am	Public holiday	
	21/10/21	Thur	2:00 pm -5:00 pm	Neurophysiology: introduction, nerve stimulation, conduction, Synapses etc.	Dr. Towett
				Sensory organs: somatic and special sense organs (eye and ear)	"

				spinal cord, sensory and motor cortices, ascending and descending tracts	"
				Autonomic nervous system: sympathetic and parasympathetic trunks	"
6	26/10/21	Tue	9:00 am - 10:00 am	Pain physiology	"
			10:30 am - 11:30 am	Reflex activity	"
			11:30 am - 12:30 pm	"	"
	27/10/21	Wed	8:00 am - 10:00 am	Sympathetic and parasympathetic trunks	Dr. Towett
	28/10/21	Thu	2:00 pm - 4:00 pm 4:00 pm - 5:00 pm	Pain physiology, reflex activity Tutorial / Assessment Quiz	Dr. Towett
7	02/11/21	Tue	9:00 am -10:00 am	Muscle physiology: classification, contraction/relaxation	Prof. Kimwele
			10:30 am -11:30 am	Muscle mechanics, muscle spindle, reflexes etc	"
			11:30 am -12.30 pm	Muscle mechanics,	"
	03/11/21	Wed	8:00 am -10:00 am	Muscle mechanics	Prof. Kimwele
	03/11/21	Wed	2:00 pm -5:00 pm	Continuous Assessment Test 1	Dr. Ochwangi/ Dr. Wambugu Mr. Irungu
	4/11/21	Thu	2:00 pm -5:00pm	Tutorial Assessment Quiz	Prof. Kimwele
8	09/11/21	Tue	9:00 am -10:00 am	Blood formation, composition and functions.	Dr. Ochwangi
			10:30 am -11:30 am	Haemoglobin, hemostasis, blood groups	"
			11:30 am -12.30 pm	Blood formation, composition and functions.	"
	10/11/21	Wed	8:00 am -10:00 am	Haemoglobin, hemostasis, blood groups	"
	11/11/21	Thur	2:00 pm -5:00 pm	Blood formation, composition and function Tutorial/Assessment Quiz	Dr. Ochwangi
9	16/11/21	Tue	9:00 am - 10:00 pm	Comparative cardiovascular physiology-The heart, myocardial stimulation and contraction, pulmonary and systemic	Dr. Nyongesa
			10:30 am -12:30 pm	Hemodynamics, regulation of cardiac output	"

	17/11/21	Wed	8:00 am - 10:00 am	Blood pumping mechanism (Hemodynamics), regulation of cardiac output and blood pressure	"
	18/11/21	Thur	2:00 pm - 4:00 pm	Avian and fish cardiovascular systems	"
			4:00 pm - 5:00 pm	Tutorial/Assessment Quiz	"
10	23/11/21	Tue	9:00 am -10:00 am	Comparative respiratory physiology	Dr. Wambugu
			10.30 am -12.30pm	Air conditioning and pulmonary ventilation, lung volume and capacities	"
	24/11/21	Wed	8:00 am - 10:00 am	Alveolar gaseous exchange and	"
	25/11/21	Thur	2:00 pm - 5:00 pm	Regulation of respiration	"
11	30/11/21	Tue	9:00 am -10:00 am	Comparative respiration: Avian and fish	"
			10:30 am - 11:30 am	"	"
			11:30am - 12.30pm	Tutorial/Assessment Quiz	"
	01/12/21	Wed	8:00 am - 10:00 am	Renal physiology: Functional organization, glomerular filtration and tubular function	Dr. Kaluwa
	02/12/21	Thur	2:00 pm - 5:00 pm	"	"
12	07/12/21	Tue	9:00 am - 10:00 am	Urine formation, micturition reflex	"
			10:30am -11:30 am	Osmoregulation	"
	08/12/21	Wed	8:00 am -9:00 am	Buffer systems and acid base balance	"
			9:00 am - 10:00 am	Tutorial/Assessment Quiz	"
	09/12/21	Thur	2:00 pm - 5:00 pm	Continuous Assessment Test 2	Dr. Nyongesa Dr. Kaluwa
13	14/12/21	Tue	9:00 am - 10:00 am	Adaptation to environment	"
			10:30 am - 12:30 pm	"	"
	15/12/21	Wed	8:00 am -9:00 am	Thermoregulation & energy metabolism	"
			9:00 am - 10:00 am	Tutorial/Assessment Quiz	"
	16/12/21	Thur	2:00 pm - 5:00 pm	Endocrinology- introduction, Modes of hormone action	Prof. Oduma
14	04/01/22	Tue	9:00 am 10:00 am	Hypothalamus and pituitary gland	"
			10:30 am – 12:30pm	"	"

	05/01/22	Wed	8:00 am - 10:00 am	Growth, thyroid, parathyroid, pancreatic, adrenal hormones etc.	"
	06/01/22	Thur	2:00 pm - 4:00 pm	Pancreas: endocrine and exocrine	"
			4:00 pm - 5:00 pm	Tutorial/Assessment Quiz	"
15	11/01/22	Tue	8:00 am - 10:00 am	Revision	
			10:30 am - 12:30pm	Revision	
	12/01/22	Wed	8:00 am - 10:00 am	Revision	
	13/01/22	Thur	2:00 pm - 5:00 pm	Revision	
16 & 17	17/01/2022 to 31/01/2022			First Semester University Examinations	All

Approved: ...
Chairman, Dept. Vet. Anatomy & physiology

Date: 29/09/2021