



UNIVERSITY OF NAIROBI
FACULTY OF VETERINARY MEDICINE
DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY
1ST SEM. LECTURE SCHEDULE FOR B.VET.MED. I, 2020/2021 ACADEMIC YEAR
31TH AUGUST 2020-30TH JANUARY 2021
Teaching: 21st Sept. 2020-11th Dec. 2020
Exams: 11/1/2021-30/1/2021

JVP 101: PHYSIOLOGY I

Week	Date	Day	Time	Topic	Lecturer
1	31st August – 6th Sept. 2020			Orientation	All
2&3	7th September-20th Sept. 2020			ICT training	ICT staff
4	22/9/20	Tue	9-10	Introduction to Physiology	Prof. Mathiu
			10.30-12.30	Cell Physiology and biophysics: Cell structure and functions	“
	23/20	Wed	8-10	Membrane Properties and transport mechanisms	“
	24/20	Thur	2-5	“	“
5	29/20	Tue	9-10	Homeostatic mechanisms	“
			10.30-11.30	Control systems of the body: Positive and negative feedback mechanisms.	“
			11.30-12.30	Tutorial/Assessment Quiz	“
	30/20	Wed	8-10	Body fluids: classification, composition, functions and fluid movements	Dr. Ochwang'i
	1/10	Thur	2-5	“	“
6	6/10	Tue	9-10	Tutorial/Assessment Quiz	“
			10.30-12.30	Neurophysiology: Introduction, nerve stimulation, conduction, synapses etc.	Dr. Towett
	7/10	Wed	8-10	Sensory organs: somatic	“

				and special sense organs (eye and ear)	
	8/10	Thur	2-5	Central nervous system: spinal cord, sensory and motor cortices, ascending and descending tracts	“
				Autonomic nervous system: sympathetic and parasympathetic trunks	“
7	13/10	Tue	9-10	Pain Physiology	“
			10.30-11.30	Reflex activity	“
			11.30-12.30	Tutorial/Assessment Quiz	“
	14/10	Wed	8-10	Muscle physiology: Classification, contraction/relaxation mechanism,	Prof. Kimwele
	15/10	Thur	2-5	Muscle: classification, contraction/relaxation mechanisms	Prof. Kimwele
8	20/10	Tue	HOLIDAY		
	21/10	Wed	8-9	Muscle mechanics, muscle spindle, reflexes etc	“
			9-10	Tutorial/Assessment Quiz	“
			2-5	CAT	Dr.Ochwang’i/Dr. Kaluwa
	22/10	Thur	2-5	Blood: formation, composition and functions, haemopoiesis	Dr.Ochwang’i
9	27/10	Tue	9-10	Haemoglobin, Hemostasis, blood groups	“
			10.30-11.30	“	“
			11.30-12.30	Tutorial/Assessment Quiz	“
	28/10	Wed	8-10	Comparative Cardiovascular physiology- The heart, myocardial stimulation and contraction, pulmonary and systemic circulation	Dr. Nyongesa
	29/10	Thur	2-5	“	“
10	03/11	Tue	9-10	Blood pumping mechanism	

				(Hemodynamics), regulation of cardiac output and blood pressure	
			10.30- 12.30	“	“
	04/11	Wed	8-10	“	“
	05/11	Thur	2-4	Avian and fish cardiovascular systems	“
			4-5	Tutorial/Assessment Quiz	“
11	10/11	Tue	9-10	Comparative Respiratory Physiology	Dr. Wambugu
			10.30- 12.30	Air conditioning and pulmonary ventilation, lung volume and capacities	“
	11/11	Wed	8-10	Alveolar gaseous exchange and blood-gas transport	“
	12/11	Thur	2-5	Regulation of respiration	“
12	17/11	Tue	9-10	Comparative respiration: Avian and fish	“
			10.30- 11.30	“	“
			11.30- 12.30	Tutorial/Assessment Quiz	“
	18/11	Wed	8-10	Renal physiology: Functional organization, glomerular filtration and tubular function	Dr. Kaluwa
	19/11	Thur	2-5	“	“
13	24/11	Tue	9-10	Urine formation, micturition reflex	
			10.30- 11.30	Osmoregulation	“
	25/11	Wed	8-9	Buffer systems and acid base balance	“
			9-10	Tutorial/Assessment Quiz	“
	26/11	Thur	2-5	Continuous Assessment Test 2	Dr. Nyongesa/Dr. Wambugu
14	01/12	Tue	9-10	Adaptation to Environment	Prof. Mathiu
			10.30- 12.30	“	“
	02/12	Wed	8-9	Thermoregulation & Energy Metabolism	“

			9-10	Tutorial/Assessment Quiz	“
	03/12	Thur	2-5	Endocrinology - introduction, Modes of hormone action	Prof. Oduma
15	8/12	Tue	9-10	Hypothalamus and pituitary gland	“
			10.30-12.30	“	“
	9/12	Wed	8-10	Growth, thyroid, parathyroid, pancreatic, adrenal hormones etc.	“
	10/12	Thur	2-4	Pancreas: Endocrine and Exocrine	“
			4-5	Tutorial/Assessment Quiz	“
16,17&18	11/01/2021 to 30/01/2021			First Semester University Examinations	All

Approved: **Date:**
(Chairman, Dept. Vet. Anatomy & physiology)