



UNIVERSITY OF NAIROBI
DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY
FIRST SEMESTER TEACHING SCHEDULE FOR B.V.M I, 2016/2017

JVP 101 –PHYSIOLOGY I

REVISED

Week	Date	Day	Time	Topic	Lecturer
0	5 th – 11 th , 9/2016			Orientation	
1	13/9/16	Tue	8-10	Introduction to Physiology	Prof. Mathiu
			10.30-12.30	Cell Physiology and biophysics: Cell structure and functions	“
	14/9	Wed	8-10	Membrane Properties and transport mechanisms	“
	15/9	Thur	2-5	“	“
2	20/9	Tue	8-10	Homeostasis	“
			10.30-12.30	Tutorial- cell and homeostasis	“
	21/9	Wed	8-10	Body fluids: classification, composition, functions and fluid movements	Dr. Kaluwa
	22/9	Thur	2-5	“	“
3	27/9	Tue	8-10	Body fluids- exchanges, volume regulation	“
			10.30-12.30	Blood: formation, composition and functions	“
	28/9	Wed	8-10	Hemostasis, blood grouping	“
	29/9	Thur	2-3	Tutorial- Body fluids and blood	“
			3-5	Neurophysiology: Introduction, nerve stimulation, conduction , synapses etc.	Dr. Towett
4	4/10	Tue	8-10	“	“
			10.30-12.30	Sensory organs: somatic and special sense organs (eye and ear)	“
	5/10	Wed	8-10	Central nervous system: spinal cord, sensory and motor cortices, ascending and descending tracts	“
	6/10	Thur	2-5	Autonomic nervous system: sympathetic and parasympathetic trunks	“
5	11/10	Tue	8-10	“	“
			10.30-12.30	“	“
	12/10	Wed	8-9	Tutorial- sensory physiology	“
			9-10	Renal physiology: Introduction, glomerular filtration and tubular function	Prof. Maloiy
13/10	Thur	2-5	Urine formation, micturition reflex	“	
6	18/10	Tue	8-10	“	“
			10.30-12.30	Continuous Assessment Test 1	Prof. Mathiu/Towett
	19/10	Wed	8-10	Buffer systems and acid base balance	Prof. Maloiy
	20/10	Thur		HOLIDAY	
7	25/10	Tue	8-9	Tutorial – renal physiology and acid-base balance	Prof. Maloiy
			9-10	Muscle physiology: Classification, contraction/relaxation mechanism,	Prof. Kimwele
			10.30-12.30	“	“
	26/10	Wed	8-10	Muscle mechanics, muscle spindle, reflexes etc	“

	27/10	Thur	2-5	“	“
8	1/11	Tue	8-9	“	“
			9-10	Tutorial- muscle physiology	“
			10.30-12.30	Cardiovascular physiology- The heart, myocardial stimulation and contraction	Dr. Nyongesa
	2/11	Wed	8-10	Blood pumping mechanism (Hemodynamics), regulation of cardiac output and blood pressure	“
	3/11	Thur	2-5	“	“
9	8/11	Tue	8-10	“	“
			10.30-12.30	Avian and fish cardiovascular systems	“
	9/11	Wed	8-10	“	“
	10/11	Thur	2-5	“	“
			4-5	Tutorial-Cardiovascular system	“
10	15/11	Tue	8-10	Respiration-Air conditioning and pulmonary ventilation	Dr. Wambugu
			10.30-12.30	Alveolar gaseous exchange and blood-gas transport	“
	16/11	Wed	8-10	Regulation of respiration	“
	17/11	Thur	2-4	Comparative respiration: Avian and fish	“
			4-5	Tutorial-Respiration	“
11	22/11	Tue	8-10	Thermoregulation and integument	Prof. Maloiy
			10.30-12.30	Continuous Assessment Test 2	Dr. Nyongesa/Prof. Mathiu
	23/11	Wed	8-9	Tutorial- Thermoregulation	Prof. Maloiy
			9-10	Endocrinology- introduction, Modes of hormone action	Prof. Oduma
	24/11	Thur	2-5	Hypothalamus and pituitary gland	“
12	29/11	Tue	8-10	“	“
			10.30-12.30	“	“
	30/11	Wed	8-10	Growth, thyroid, parathyroid, pancreatic, adrenal hormones etc.	“
	1/12	Thur	2-4	“	“
4-5			Tutorial- endocrinology	“	
13	6/12	Tue	8-10	Digestion- monogastric animals	Dr. Ochwang'i
			10.30-12.30	“	“
	7/12	Wed	8-10	“	“
	8/12	Thur	2-4	“	“
			4-5	Tutorial- digestion in monogastrics	“
14 & 15	13/12/16 to 23/12/16			First Semester Examinations	

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