


UNIVERSITY OF NAIROBI  
DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY  
FIRST SEMESTER TEACHING SCHEDULE FOR B.V.M I, 2014/2015  
JVP 101 –PHYSIOLOGY I

REVISED

Week	Date	Day	Time	Topic	Lecturer
0				<b>Orientation</b>	
1	22/9/15	Tue	8-10	Introduction to Physiology/practicals	Dr Mathiu
			10.30-12.30	Cell Physiology and biophysics: Cell structure and functions	“
	23/9	Wed	8-10	“	“
	24/9	Thur	2-5	Membrane Properties and transport mechanisms	“
2	29/9	Tue	8-10	“	“
			10.30-12.30	Homeostasis	“
	30/9	Wed	8-10	Tutorial- cell and homeostasis	“
	1/10	Thur	2-5	Body fluids: classification, composition, functions and fluid movements	Dr Ochwang’i
3	6/10	Tue	8-10	“	“
			10.30-12.30	Body fluids- exchanges, volume regulation	“
	7/10	Wed	8-10	Blood: formation, composition and functions	“
	8/10	Thur	2-4	Hemostasis, blood grouping	“
4-5			Tutorial- Body fluids and blood	“	
4	13/10	Tue	8-10	Neurophysiology: Introduction, nerve stimulation, conduction , synapses etc.	Dr Towett
			10.30-12.30	“	“
	14/10	Wed	8-10	Sensory organs: somatic and special sense organs (eye and ear)	“
	15/10	Thur	2-5	Central nervous system: spinal cord, sensory and motor cortices, ascending and descending tracts	“
5	20/10	Tue	8-10	Autonomic nervous system: sympathetic and parasympathetic trunks	“
			10.30-12.30	“	“
	21/10	Wed	8-9	“	“
			9-10	Tutorial- sensory physiology	“
22/10	Thur	2-5	Renal physiology: Introduction, glomerular filtration and tubular function	Dr Oduma	
6	27/10	Tue	8-10	Urine formation, micturition etc	“
			10.30-12.30	“	“
	28/10	Wed	8-10	“	“
	29/10	Thur	2-4	Buffer systems and acid base balance	“
4-5			Tutorial – renal physiology and acid-base balance	“	
7	3/11	Tue	8-10	Muscle physiology: Classification, contraction/relaxation mechanism,	Dr Kimwele
			10.30-12.30	<b>Continuous Assessment Test</b>	<b>Dr Oduma/Towett</b>
	4/11	Wed	8-10	Muscle mechanics, muscle spindle, reflexes etc	Dr Kimwele

	5/11	Thur	2-5	“	“	
8	10/11	Tue	8-10	“	“	
			10.30-11.30	“	“	
				11.30-12.30	Tutorial- muscle physiology	“
	11/11	Wed	8-10	Cardiovascular physiology- The heart, myocardial stimulation and contraction	Dr Nyongesa	
	12/11	Thur	2-5	Blood pumping mechanism ( Hemodynamics), regulation of cardiac output and blood pressure	“	
9	17/11	Tue	8-10	“	“	
			10.30-12.30	“	“	
	18/11	Wed	8-10	Avian and fish cardiovascular systems	“	
	19/11	Thur	2-5	“	“	
10	24/11	Tue	8-9	Tutorial-Cardiovascular system	Dr Nyongesa	
			9-10	Respiration-Air conditioning and pulmonary ventilation	Prof Maloiy	
			10.30-12.30	Alveolar gaseous exchange and blood-gas transport	“	
	25/11	Wed	8-10	Regulation of respiration	“	
	26/11	Thur	2-4	Comparative respiration: Avian and fish	“	
			4-5	Tutorial-Respiration	“	
11	1/12	Tue	8-10	Thermoregulation and integument	“	
			10.30-12.30	“	“	
	2/12	Wed	8-10	“	“	
	3/12	Thur	2-5	Endocrinology- introduction, Modes of hormone action	Dr Kaluwa	
12	8/12	Tue	8-10	“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	“	“	
4-5			Tutorial- endocrinology	“		
13	15/12	Tue	8-10	Digestion- monogastric animals	Dr Wambugu	
			10.30-12.30	“	“	
	16/12	Wed	8-10	“	“	
	17/12	Thur	2-4	“	“	
			4-5	Tutorial- digestion in monogastrics	“	
				<b>CHRISTMAS BREAK</b>		
14 & 15	11/1/16 to 23/1/16			<b>First Semester Examinations</b>		

Approved:  Date: 28/8/15

(Chairman, Dept. Vet. Anatomy & physiology)