



**UNIVERSITY OF NAIROBI**

**DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY**

**SECOND SEMESTER TEACHING SCHEDULE 2020/2021**

**MSc. REPRODUCTIVE BIOLOGY**

<b>WEEK</b>	<b>DATE</b>	<b>UNIT</b>	<b>LECTURER</b>
6	<b>Beginning 08/03/2021</b>	<b>JVP 505: Reproductive Physiology</b>	Dr. Kaluwa
	L1	Endocrinology of reproduction and behavior	
	L2	“	
	L3	“	
	L4	“	
	L5	“	
7	<b>Beginning 15/03/2021</b>	“	
	L6	Male reproduction: hormonal influence on testicular function (steroidogenesis and spermatogenesis), sperm transport and storage in duct system	Dr. Kaluwa
	L7	“	“
	L8	“	“
	L9	Capacitation and fertilization	“
	L10	“	“
8	<b>Beginning 22/03/2021</b>		
	L11	Female reproduction: ovary development, oogenesis and folliculogenesis, ovulation, anatomy of the uterus	Prof. Owiti
			“
	L12	Implantation, decidualization ,pregnancy, maternal nutritional requirement	“
	L13		
	L14	Female sex differentiation and development, placentation in mammals	“

	L15	Contraception techniques, embryo transfer, In vitro fertilization	Prof. Owiti
9	<b>Beginning 29/03/2021</b>	<b>JVP 516: Reproductive Biochemistry, Pharmacology &amp; Immunology</b>	
	L15	Biosynthesis, secretion, transport of reproductive hormones	Dr. Nyongesa
	L16	Hormone receptors, density, affinity, interaction of hormones with receptors	“
	L17	“	“
	L18	Gene regulation by steroid hormones, ancillary hormones	“
	L19	Biochemistry of lactogenesis and galactopoiesis	“
10	<b>Beginning 06/04/2021</b>		
	L20	Pharmacology, pharmacokinetics and therapeutic usage of reproductive hormones and their analogues	Dr. Nyongesa
	L21	Parturition, lactation, suckling reflex and fertility regulation	“
	L22	Immunological aspects of reproduction in male and female, maternal recognition of fetal allografts, feto-placental unit, uterus, testis and seminal plasma	Dr. Nyongesa
	L23	Immuno contraception and disorders of pregnancy	“
11	<b>Beginning 12/04/2021</b>	<b>JVP 518: Family Planning, Social Behavior and Population</b>	
	L24	Health and social –economic rationales, unmet needs for family planning	Dr. Kaluwa
	L25	“	“
	L26	“	“
	L27	Contraception, efficacy , safety, reliability and acceptance of the different methods	Dr. Kaluwa
	L28	“	“
12	<b>Beginning 19/04/2021</b>		
	L29	Contribution of African kinship and marriage systems to fertility differentials among various population groups	Prof Oduma
	L30	“	“
	L31	Incidence and prevalence of marriage, divorce and separation Factors	Prof. Oduma

		underlying patterns of separation, divorce and re-marriage	
	L32	Demographic perspectives of human behavior, Biological, ecological and sociological models of population	Prof. Oduma
		Impact of population growth on development, health services and the environment. Evolution of population policies in Africa	Prof. Oduma
13	<b>Beginning 26/04/2021</b>	<b>JVP 515: Laboratory Methods in Reproductive Biology and Animal Models</b>	
	L33	Use of laboratory animals for research in reproduction: captive management, ethical considerations and numbers	Dr. Nyongesa
	L34	Animal models and alternatives to their use	“
	L35	Methods of collection, preservation and processing of biological materials	“
	L36	Imaging techniques and ultra sound	
		Immuno assays, electrophoresis, tracer techniques, cell and tissue culture techniques	Dr. Nyongesa
14 <sup>th</sup> Week	<b>10/05/2021 to 14/05/2021</b>	<b>Second Semester Exams</b>	

Approved.....

**Chairman, Dept. of Vet. Anatomy & Physiology**

**Date: 05/03/2021**