St.Mary's College Form 5 Course Outline Biology 2022-2023

Term	Topic	Subtopic	Week
1	Sexual Reproduction		
		Reproductive systems in animals	
		Menstral cycle in man	1-2
		Gamete, foetus and embryo formation in man	
		Methods of birth control in man	
	Germination and growth		
		Processes taking place during germination	2
		LAB: PD: Factors affecting germination	3
	Inheritance		
		DNA, chromosomes and genes	
		Dominant and recessive conditions	4-6
		Sex determination and sex linked diseases	4-0
		LAB: AI: Modelling Inheritance	
	Variation		
		Importance of varaiation	7-8
		Continuous and discontinuous variation	
		LAB: ORR: Variation in human height	
	Natural Selection		
		Natural and artificial selection	
		Mutation	9
		Matado.	
	Excretion		
		Importance of excretion and egestion	
		Metabolic wastes from both plants and animals	
		Osmoregulation and excretory function of the kidney	10-11
		LAB: PD: Distinguishing between urine samples	

	Movement in Plants		
		Phototropism, geotropism, auxin	12
		Use of plant hormones as herbicides	
	Implementation of Planning and Design	Recording data and presentation of implementation project.(Lab:AI: Litter survery)	
2	Movement in man	Structure and function of skeleton and movement in the forelimb	1-2
		LAB: MM: Modelling the action of the biceps	
	Irritability		
		Stimulus, Response and Nervous Pathway	
		Reflex Arc, Structure and Function of the Brain.	
		Structure and Function of the Eye and Sight Defects	3-4
		Structure and Function of the Skin.	
		LAB: MM: Invertebrate response to light and moisture	
		LAB: ORR: Sensitivity of human skin	
	Disease		
		Pathogenic, deficiency, hereditary and physiological diseases and their treatment/control.	
		Effects of smoking, alcohol and drug abuse	
		Life cycle of vector of pathogenic disease and methods of control	
		Role of blood in immunity against disease	5-6