## K.T. S. P. Mandal's Hutatma Rajguru Mahavidyalaya, Rajgurunagar.

## **Department of Zoology**

Syllabus Completion report

A.Y.-2022-2023 (Semester VI)

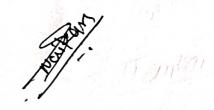
T.Y. B. Sc.

Course Title: Animal Physiology

Course Code: ZO-362

Month	Title	Teacher Name
Feb 2023	1.Nutrition and digestion: 1.1 Nutritional requirement & balanced diet. 1.2 Digestion and absorption of carbohydrates, proteins and lipids. 1.3 Vitamins - outline of fat soluble and water-soluble vitamins; Sources, deficiency and diseases.	SSN
March 2023	<ul> <li>2.Respiration:</li> <li>2.1 Mechanism of respiration: Regulation of ventilation in lungs, exchange of gases at respiratory surface.</li> <li>2.2 Respiratory pigments in animals: Haemoglobin, Hemocyanin, Hemerythrin, Chlorocruorin.</li> <li>2.3 Transport of gases: O2 and CO2 transport.</li> <li>3.Circulation:</li> <li>3.1 Blood: Definition and its constituents, functions of blood.</li> <li>3.2 Heart: Structure of human heart, Pace maker, Cardiac Cycle.</li> <li>3.3 Origin and conduction of heart beat.</li> </ul>	SSN
April 2023	<ul> <li>4. Excretion:</li> <li>4.1 Structure of Uriniferous tubule.</li> <li>4.2 Mechanism of urine formation.</li> <li>4.3 Normal and abnormal constituents of urine, Elementary idea of dialysis.</li> </ul>	
April 2023	5.Muscles: 5.1 Structure of smooth, skeletal and cardiac muscles. 5.2 Structure of smooth, skeletal and cardiac muscles.	SSN
May 2023	<ul> <li>5.2 Mechanism of muscle conductory</li> <li>6.Reproduction and Endocrine Glands:</li> <li>6.1 Physiology of male reproduction, hormonal control of spermatogenesis.</li> <li>6.2 Physiology of female reproduction, hormonal control of menstrual cycle. Structure and functions of pituitary, thyroid, parathyroid, pancreas and adrenal glands.</li> </ul>	3311

As per mention above 90% syllabus is completed and remaining will be complete in Last Week of May.



Course Title: Evolutionary Biology

Course Code: ZO 366

Semester: VI

Month	Programme Progra	
1.1	Title	
Feb	1.Introduction	Teacher
2023	1.1 Concept of P.	Name
1711	1.2 Origin of life.	
11-6	1.3 Origin of eukaryoti	SSN
	1.3 Origin of eukaryotic cell (Origin of mitochondria, plastids & 2. Evidences of Evolution	
크셨	2. Evidences of Evolution:	
N.A.	2.1 Analogy and r	
	2.3 Evolutionary & Poler Polerices of Evolution.	
March	2.3 Evolutionary & Paleontological Evidences.  3. Historical Review of Evolution.	
2023	3. Historical Review of Evolutionary Concept: 3.1 Theories of Evolution.	
	3.2 Lamarckism.	SSN
	3.3 Darwinism and Neo Darwinism.	
	3.4 Mutation Theory.	
	3.5 Modern Synthetic theory.	1
	4. Sources of Variations:	
	4.1 Variation and Mutations.	
March	5. Isolation	
2023		SSN
April	6.Speciation:	
2023	6.1 Types of speciation (Allopatric & Sympatric).	SSN
	6.2 Mechanism of speciation.	
	6.3 Patterns of speciation.	
	6.4 Factors influencing speciation.	
April	7. Population Genetics:	age
2023	7.1 Hardy-Weinberg Law & Genetic Drift.	SSN
	7.2 Types of Natural Selection.	
April	8. Origin of Man:	SSN
2022	8.1 Evolution of Man (Evolution of anthropoids including man) -	3311
1.2	Kenyapithecus to Homo sapiens.	
Mov	9.Zoogeographical Realms With reference to fauna:	
May 2023	7. Lugeogi "Pinon	SSN
		SSN
May	10.Extinctions: 10.1 Extinction - An Overview.	3311
2023	10.1 Extinction - All Overview	

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