

TEACHING PLAN SUB: ZOOLOGY (CORE)
ACADEMIC PERIOD: 1st Jan 2017 to 30thMay 2017

BROAD SUB: Cell Biology and Biochemistry
 PAPER : ZooGT- 201

Unit	Sub Theme	Course Content	Probable Period of Teaching	Name of the Teacher
1	prokaryotic and eukaryotic cells; plasma membrane, Golgi bodies, endoplasmic reticulum, membrane transport	1. General structure and function of prokaryotic and eukaryotic cells;	1 st January to 15 th May	SD
		2. structure and function of plasma membrane, Golgi bodies, endoplasmic reticulum;		
		3. membrane transport -osmosis, diffusion and active transport.		
2	Mitochondria, Nucleus and chromosome	1. Structure and function of mitochondria	1 st January to 15 th May	SD
		2. Structure and function of nucleus		
		3. Structure and function of chromosomes		
3	Cell cycle,division and cancer	1. Cell cycle	1 st January to 15 th May	SD
		2. cell division (amitosis, mitosis & meiosis);		
		3. basic concept of cancer		
4	Principles of Biochemistry, Biomolecules, vitamins and enzymes	1. Basic principles of biochemistry, acid, base, pH and buffer;	1 st January to 15 th May	AB
		2. types of carbohydrates, proteins,fats;		
		3. nature and function of enzymes; vitamins their sources and functions.		
5	Biological oxidation, etc and TP synthesis	1. Biological oxidation, glycolysis and Krebs cycle	1 st January to 15 th May	TG
		2. electron transport system		
		3.Synthesis of ATP		

TEACHING PLAN

SUB: ZOOLOGY (CORE)

ACADEMIC PERIOD: 1st Jan 2017 to 30th May 2017

4th SEMESTER

BROAD SUB: Animal physiology and
Endocrinology

PAPER : ZooGT- 401

Unit	Sub Theme	Course Content	Probable Period of Teaching	Name of the Teacher
1	Bal. Diet, Digestion & Abs. of Carbohydrate, Proteins and fats	1. Balanced diet; digestion and absorption of carbohydrate	1 st January to 15 th May	TG
		2. Digestion and absorption of proteins and fats.		
2	Resp. and Exce. In Mammals, Blood, Blood group, Blood coagulation	1. Physiology of respiration and excretion in mammals;	1 st January to 15 th May	TG
		2. composition and constituents of blood		
		3. groups and Rh factor, Blood coagulation		
3	Neuron, Nerve impulse, Drug Addiction	1. Neurons and conduction of nerve impulse	1 st January to 15 th May	SB
		2. drug addiction and its impact on society.		
4	Endocrine system in mammal, anatomy of pituitary, thyroid, pancreas and adrenal gland . neuroendocrine system in insects.	1. A brief outline of the organization of endocrine system in mammals;	1 st January to 15 th May	SD
		2. anatomy of pituitary, thyroid, pancreas and adrenal gland		
		3. neuroendocrine system in insects.		
5	character of hormones, feedback mech., functions of hormones of pituitary, thyroid, pancreas and adrenal.	1. General character of hormones	1 st January to 15 th May	SB
		2. feedback mechanism; functions of hormones of pituitary,		
		3. Functions of hormones of thyroid, pancreas and adrenal.		

