





Department of Zoology

Board of Studies 2020-2021

Percentage of the Syllabus revision on 22-02-2020

UG (2020-2023 BATCH)

S. No	Year	Semes ter	Paper Code	Paper Title	Changes			Reason for change
	P.				Removed	Added (if any)		
1.	2020-	I	20UZY101	Core Pener I	(if any)			
	2023	·		Core Paper –I Nonchordata	Unit I Type study- Plasmodium Economic importance of Protozoa Unit II Coral reefs-Types and Formation Unit III Phylum Aschelminthes Economoic importance of Aschelminthes Phylum Annelida Type study -Earthworm Unit IV Peripatus as a Connecting Link.	Unit I Type study- Paramecium Protozoa in Human Diseases Unit II Polymorphism in coelenterates Unit- III Phylum Annelida Type study Neries Metamerism in Annelids	35%	Suggesti by subject expert
2.	2020- 2023	II	20UZY202	Core Paper –II Chordata	Unit I Pisces	Unit I Pisces	20%	Suggeste by faculy
				-	Urinogenital system Unit II Class Amphibia-Frog Cranial nerves	Placoid scales Excretory system Reproductive system		by faculy

					Origin of Amphibia Unit III Urinogenital system Unit IV Aves- Flightless birds	Unit II Class Amphibia-Frog Heart Parental care in frogs Unit III Excretory system Reproductive system Unit IV Aves-Flight Adaptation		ī
3.	2020- 2023	11	20UZY203	Major Practical - I (Non-Semester Pattern) Nonchordata & Chordata	Spotters A. Earthworm B. Human Brain C. Sponge gemmules D. Emu	Spotters A.Leucosolenia Neries Pila B.L.S. of Leucosolenia Placoid scale Rabbit Brain C. Archaeopteryx Salamader Bat D. Sea horse, Platypus, Sepia	15%	Suggested by Subject expert
4.	2020- 2023	I	20UBYIA I	Ancillary Zoology Paper I Nonchordata and Chordata	Unit III Lamellidens - Circulatory system Unit IV Migration of fishes Unit V Calotes-Brain Frog- Reproductive system Mammalia - Rabbit excretory system	Unit V Digestive system of pigeon	10%	Suggested by faculty
5.	2020- 2023	П	20UBY2A 2	Ancillary Zoology Paper -II Economic Zoology	Unit - V Arthropod vectors and Human disease	Unit -III Scope of sericulture Vegetative propagation Unit -IV Scope of poultry Unit - V Vermiculture	20%	Suggested by students
6.	2020- 2023	II	20UBY2A 3	Ancillary Zoology Practical (Non-Semester Pattern) Paper I & II	Spotters Taenia solium Pigeon-Quill feather Snake – Poison apparatus Foot and mouth disease – virus,Bird flu	Obelia colony Leucosolenia Flight muscles Bat Peripatus, Silkgland,Octopus	5%	Suggested by Faculty

7.	2020-	III	Γ		Unit I	Unit IV	10%	Suggested
	2023		20UZY304	Core Paper –IV Cell Biology	I.HIV virus Unit II 2.Cytoplasmic matrix Unit III 3.mDNA 4.Protein synthesis components	1.Centrosome – Structure and function. 2.Types of chromosome		by subject expert
8.	2020- 2023	III	20UZY3N1	Non- Major Elective (NME) Public Health and Hygiene	Unit IV Malaria, Filariasis Unit V Global health council	Unit I Dynamics of Disease Transmission-Malaria Unit IV Influenza, Chicken pox	10%	Suggested by subject expert
9	2020- 2023	III	20UZY3N2	Non- Major Elective (NME) Ornametal Fish Culture	Nil	Nil	0%	-
10.	2020-2023	IV	20UZY405	Core Paper –V Genetics	Unit II 1. Interference and coincidence 2. XX-XO type- Grasshopper 3. Bridge's genic balance theroy Unit III 4. Eye colour in drosophila Unit V 5. Bacteriophage infection 6. Biochemical evidences in DNA genetic material 7. Molecular basis of gene mutation Population genetics	Unit IV 2. Euphenics Unit V 3. Genetic counseling	20%	Suggested by Alumni and Faculty
	2020- 2023	IV	20UZY406	Major Practical – II (Non-Semester Pattern) Cell biology & Genetics	Spotters: Cell Biology 1. Cell cycle 2. Cancer cell Genetics 3. Pedigree analysis	Spotters: Cell Biology 1. Polytene chromosome	5%	Suggested by subject expert
	2020- 2023	IV	20UZY4N3	Non-Major Elective (NME)Food and Nutrition	Nil	Nil	0	-

13.	2020-	IV	20UZY4N4					
14.	2023			Non-Major Elective (NME) Apiculture (NME)	Unit -11 Apis mellifera	Unit- II Relationship between plants and bee- Plant as habitat- symbiosis- pollination	5%	suggested by subject expert
	2020- 2023	V	20UZY 507	Core Paper – VII Developmental Biology	Unit-1 Definition-Ontogeny-Phylogeny Unit-111 Comparison of the cleavage and gastrulation of frog and chick — Unit-1V Nuclear transplantation types- techniques	Unit-I Introduction to developmental biology	10%	Suggested by subject expert
15.	2020- 2023	V	20UZY508	Core Paper – VIII Biotechnology	Unit 1: Gene map lambda DNA Unit III Monoclonal antibody Retroviral and embryonic methods Unit V: Biochips Possible dangers of GEO Implementation of biosafety guidelines	Unit III. Biolistics (SS) Unit IV: Scope and application of nano biotechnology	10%	Suggested by Alumni
16.			20UZY509	Core Paper – IX Biostatistics& Biophysics	Unit II 1. Merits and demerits Unit III 2. Null hypothesis 3. Probability Unit IV 4. Mechanism of Bioluminiscence Unit V 5. Spectrophotometer	Unit II 1. Mean deviation -Measures of dispersion Unit III 2.Student t test	5%	Suggested by Faculty
17.	2020-2023	V	20UZY510	Core Paper – X Biochemistry and Bioinformatics	Unit -1 1.Hexoses 2.Nonreducing sugar and reducing sugar 3.Heparin 4.Starch 5.Wax 6.Glycolipids 7.Fattyacid and cholesterol	-	20%	Suggested by Alumni
18.	2020- 2023	V	20UZY 5E1	Core Elective Paper – I Medical Laboratory Techniques	Unit-I Automatic analyzer Unit-V Venereal Disease	Unit-I Urinometer, Albumino meter Unit-V Gonorrhoea Disease	15%	Suggested by subject expert

19	2020- 2023	V	20UZY 5E2	Core Elective Paper – II Poultry Science and Management Technology	Nil	Nil	0%	<u> -</u>
20.	2020- 2023	VI	20UZY611	Core Paper –XI Animal Physiology and Endocrinology	Unit-III Sexual cycle in human: Puberty, Spermiation, Ovulation, Menstrual cycle Pregnancy and Parturition.		10%	Suggested by the Faculty
21.	2020- 2023	VI	20UZY612	Core Paper - XII Ecology & Evolution	-	-	0%	-
22.	2020- 2023	VI	20UZY613	Core Paper – XIII Microbiology and Immunology	Unit II Bacteriophages _Life cycle Lytic and Lysogenic Life cycle	Unit II Structure of Bacteriophages Unit III Biochemical changes of Food Spoilage Unit -V Types of tumor -, Causes of tumor -factors involved in tumor immunity	10%	Suggested by subject expert
23.	2020- 2023	VI	20UZY6E3	Core Elective Paper-III Sericulture	Unit I. 1. Central and state silkboard functions	Unit III 1. Bed cleaning and its methods Unit IV 2. Chawki rearing in india Unit V 3. Indian uzi fly	10%	Suggested by faculty
24.	2020-2023	VI	20UZY6E4	Core Elective Paper-IV Insect Pest Management	Nil	Nil	0%	-
25.	2020- 2023	VI	20UZY6E5	Core Elective Paper-III Aquaculture	-	-	0%	-
26.	2020- 2023	VI	20UZY614	Major Practical – III (Non-Semester Pattern) Developmental Biology, Animal Physiology & Endocrinology,	Preparation of haemincrystals Frog yolk plug Chick egg Mammalian heart Sahli's heamometer	Estimation of haemoglobin by using haemoglobinometer Estimation of Erythrocyte Sedimentatio rate in human Estimation of glucose using	25%	Suggested by Students

				Biostatistics &Biophysics, Bioinformatics &Biochemistry & MLT	BP apparatus PH meter Ultracentrifuge Structure of sucrose Structure of starch	digital method Frog- Blastula Placenta of sheep Human foetus BLAST		
27.	2020-2023	VI	20UZY 615	MAJOR ZOOLOGY PRACTICAL - IV (Ecology, Evolution, Biotechnology, Microbiology, Sericulture and Aquaculture)	SPOTTERS Sacculina on Crab Coccyx Peppered moth	SPOTTERS Sucker fish Giraffe Lung fish Silk gland Pebrine Lernaeasis Live feed-Daphnia	10%	Suggested by faculty
28.	2020-2023	VI	20UZY6S3	Skill Based Elective (SBE) Vermiculture	Unit III Diseases and Predators of Earthworm control measures Unit IV Biomass Nutrient content of Soil and Biomass Unit V Nutrient value of vermicompost	Unit I Economic importance of Earthworm Unit III Collection of earth worms, Methods of vermicomposting Unit IV Indoor vermicomposting Precautions need for vermicomposting Nutrient content of vermicompost	20%	Suggested by subject expert
29.	2020- 2023	VI	20UZY 6S4	Skill Based Elective (SBE) Biopharmaceuticals (SBE)	Unit V Quality assurance and quality control Fundamental of quality assurance, benefits, structure of quality management, documentation, quality assurance in manufacturing	-	0	-

Signature of the BoS Chairman

Dr. S. SOMASUNDARAM M.Sc.,Ph.D., Assistant Professor and Head Department of the Lay Nallamuthu Gounge: Januaringan College Fonachi - 642 out. Principal
PRINCIPAL
PRINCIPAL
PRINCIPAL

Department of Zoology

Board of Studies 2020-2021

New papers (Courses) introduced

S.No	Year	Sem	Paper Code	Paper Title	Changes		% of modific ation	Reason for Introduction
					Removed (if any)	Added (if any)		
1	2020-2023	VI	20UZY6E6	Core Elective Paper – VI Wildlife Conservation	Dairy farming and management Technology	Wildlife Conservation	100%	Suggested by Alumni

Signature of the BoS Chairman

Principal
PRINCIPAL
POLLAGHI