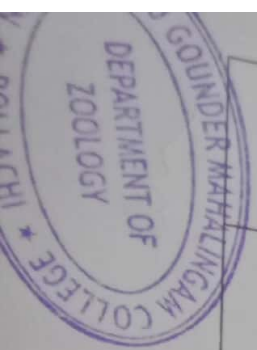


**Percentage of Revision of B.Sc. Zoology
Syllabus Revised for the Academic Year - 2020-2021**

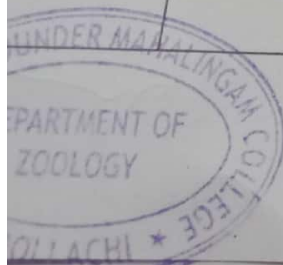
B.Sc Zoology

S.No	Course Code	Course Title	Change Details	% of Changes	Content Deleted	Content Updated	Reason for Change
1.	20UZY101	Nonchordata	Modified	35%	Unit I Type study- <i>Plasmodium</i> Economic importance of Protozoa Unit II Coral reefs-Types and Formation Unit III Phylum Aschelminthes Economic importance of Aschelminthes Phylum Annelida Type study -Earthworm	Unit I Type study- <i>Paramecium</i> Protozoa in Human Diseases Unit II Polymorphism in coelenterates Unit- III Phylum Annelida Type study Neries Metamerism in Annelids	Feed back from Expert
2.	20UBY1A1	Nonchordata and Chordata	Modified	20%	Unit III <i>Lamellidens</i> - Circulatory system Unit IV Migration of fishes Unit V <i>Calotes</i> -Brain Frog- Reproductive system Mammalia - Rabbit excretory system	Unit V Digestive system of pigeon	Course teacher
3.	20UZY202	Chordata	Modified	15%	Unit I Pisces Urinogenital system Unit II Class Amphibia-Frog Cranial nerves Unit III Urinogenital system Unit IV Aves- Flightless birds	Unit I Pisces -Placoid scales Excretory system ,Reproductive system Unit II Class Amphibia-Frog Heart Parental care in frogs Unit III Excretory system, Reproductive system Unit IV	University nominee



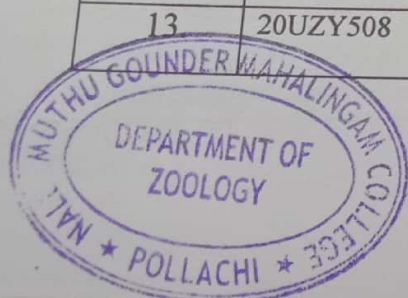
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						Aves- Flight Adaptation	
4.	20UZY203	Major Practical - I	Modified	10%	Spotters A. Earthworm B. Human Brain C. Sponge gemmules D. Emu	Spotters A. <i>Leucosolenia</i> , <i>Neries</i> Pila, B.L.S. of <i>Leucosolenia</i> Placoid scale, Rabbit Brain C. <i>Archaeopteryx</i> Salamander, Bat D. Sea horse, <i>Platypus</i> , <i>Sepia</i>	Alumni feedback
5.	20UBY2	Economic Zoology	Modified	20%	Unit – V Arthropod vectors and Human disease (Full unit removed)	Unit -III Scope of sericulture, Vegetative propagation Unit -IV Scope of poultry Unit – V Vermiculture (Full unit introduced)	-
6.	20UBY2A3	Ancillary Zoology Practical	Modified	5%	Spotters <i>Taenia solium</i> Pigeon-Quill feather Snake – Poison apparatus Foot and mouth disease – virus Bird flu	Obelia colony <i>Leucosolenia</i> Flight muscles Bat <i>Peripatus</i> Silkgland Octopus	-
7.	20UZY304	Cell Biology	Modified	10	Unit I -1.HIV virus Unit II -2.Cytoplasmic matrix Unit III -3.mDNA, 4.Protein synthesis components	Unit IV 1.Centrosome – Structure and function. 2.Types of chromosome	student representative
8.	20UZY3N1	(NME) Public Health and Hygiene	Modified	10	Unit IV Malaria, Filariasis Unit V Global health council	Unit I Dynamics of Disease Transmission-Malaria Unit IV Influenza , Chicken	course teacher



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						pox	
9.	20UZY405	Genetics	Modified	20	Unit II 1. Interference and coincidence 2. XX-XO type-Grasshopper 3. Bridge's genic balance theory 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	Experts
10.	20UZY406	Major Practical – II	Modified	5%	Spotters : Cell Biology 1. Cell cycle 2. Cancer cell Genetics 3. Pedigree analysis	Spotters : Cell Biology 1. Polytene chromosome	Course teacher
11.	20UZY4N4	Apiculture (NME)	Modified	5%	Unit -II <i>Apis mellifera</i>	Unit- II Relationship between plants and bee- Plant as habitat- symbiosis- pollination	-
12.	20UZY 507	Developmental Biology	Modified	10%	Unit- I Definition- Ontogeny-Phylogeny Unit-III Comparison of the cleavage and gastrulation of frog and chick – Unit-IV Nuclear transplantation types- techniques	Unit-I Introduction to developmental biology	Subject expert
13.	20UZY508	Biotechnology	Modified	10%	Unit I : Gene map lambda DNA	Unit III. Biolistics (SS)	University nominee



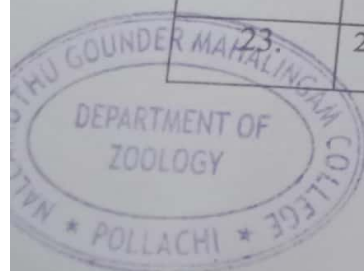
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					Unit III Monoclonal antibody Retroviral and embryonic methods Unit V : Biochips Possible dangers of GEO Implementation of biosafety guidelines	Unit IV: Scope and application of Nano-biotechnology	
14.	20UZY509	Biostatistics & Biophysics	Modified	5%	Unit II 1. Merits and demerits Unit III 2. Null hypothesis, 3. Probability Unit IV 4. Mechanism of Bioluminescence Unit V 5. Spectrophotometer	Unit II 1. Mean deviation - Measures of dispersion Unit III 2. Student t test	University nominee
15.	20UZY510	Biochemistry and Bioinformatics	Modified	20%	Unit -I 1. Hexoses 2. Nonreducing sugar and reducing sugar 3. Heparin 4. Starch 5. Wax 6. Glycolipids 7. Fatty acid and cholesterol	-	-
16.	20UZY 5E1	Medical Laboratory Techniques	Modified	15%	Unit-I Automatic analyzer Unit-V Venereal Disease	Unit-I Urinometer, Albuminometer Unit-V Gonorrhoea Disease	Course teacher
17.	20UZY611	Animal Physiology and Endocrinology	Modified	10%	Unit-III Sexual cycle in human: Puberty, Spermiation, Ovulation, Menstrual cycle Pregnancy and Parturition.	-	Course teacher
18.	20UZY612	Ecology & Evolution	Nil	0%	-	-	-
19.	20UZY613	Microbiology		10%	Unit II	Unit II	University nominee



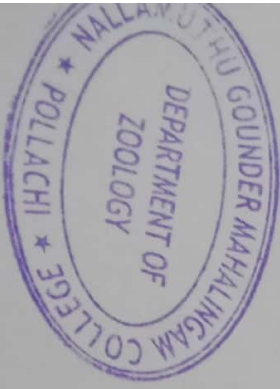
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		and Immunology			Bacteriophages _ Life cycle Lytic and Lysogenic Life cycle	Structure of Bacteriophages Unit III Biochemical changes of Food Spoilage Unit -V Types of tumor -, Causes of tumor – factors involved in tumor immunity	
20.	20UZY6E3	Sericulture	Modified	10%	Unit I. 1. Central and state silk board functions	Unit III 1. Bed cleaning and its methods Unit IV 2. Chawki rearing in India Unit V-3. Indian Uzi fly	Course teacher
21.	20UZY614	Major Practical – III	Modified	25%	Preparation of haemin crystals Frog yolk plug Chick egg Mammalian heart Sahli's haemometer BP apparatus PH meter Ultracentrifuge Structure of sucrose Structure of starch	Estimation of haemoglobin by using haemoglobinometer Estimation of Erythrocyte Sedimentation rate in human Estimation of glucose using digital method Frog- Blastula Placenta of sheep Human foetus BLAST	University nominee
22.	20UZY 615	Major Practical - IV	Modified	10%	SPOTTERS Sacculina on Crab Coccyx Peppered moth	SPOTTERS Sucker fish Giraffe, Lung fish Silk gland Pebrine Lernaeasis Live feed-Daphnia	University nominee
23.	20UZY6S3	(SBE) Vermiculture	Modified	20%	Unit III Diseases and Predators of	Unit I Economic importance	Course teacher



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					Earthworm control measures Unit IV Biomass Nutrient content of Soil and Biomass Unit V Nutrient value of vermicompost	of Earthworm Unit III Collection of earth worms, Methods of vermicomposting Unit IV Indoor vermicomposting Precautions need for vermicomposting Nutrient content of vermicompost	
24.	20UZY 6S4	(SBE) Biopharmaceuticals	Modified		Unit V Quality assurance and quality control Fundamental of quality assurance, benefits, structure of quality management, documentation, quality assurance in manufacturing	-	Course teacher
25.	20UZY6E6	Core Elective Paper -VI Wildlife Conservation	new	100%	-	All	University nominee



BOS Chairman

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