

Department of Zoology
1.1.1 (c) -2018-2019 –Academic Year

**List of Courses focus on national, regional and global developmental needs offered by
 B.Sc., Zoology**

B.Sc., Zoology						
Programme : B.Sc., Zoology					Year : 2018 -2021 Batch-I and II semester	
Course code	Course title	Need				Rationale
		Local	National	Regional	Global	
18UZY101	Core Major Paper I : Nonchordata	✓		✓		Species identification
18UZY202	Core Major paper II: Chordata	✓		✓		Species identification
18UZY203	Major Practical - I Nonchordata & Chordata	✓		✓		Species identification
18UZY1A1	Allied Botany Paper- I : Botany paper I Invertebrates and Vertebrates	✓		✓		Species identification
18UZY2A2	Allied Botany Paper II : Botany Paper II Economic Zoology	✓		✓	✓	Rearing of different species
18UZY2A3	Allied Botany Practical : Paper I & II	✓		✓		Species identification



BoS Chairman

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Programme : B.Sc., Zoology		Year : 2017 -2020 Batch- III and IV semester				
Course code	Course title	Need				Rationale
		Local	National	Regional	Global	
17UZY304	Core Major Paper IV: Cell Biology				✓	To know the functions of organelles
17UZY3N1	Non Major Elective Public Health and Hygiene	✓	✓	✓	✓	disease identification
17UZY3N2	Non Major Elective Ornamental fish culture		✓		✓	Rearing of different species of fishes
17UZY405	Core Major Paper V: Genetics				✓	hereditary diseases
17UZY406	Major Practical II : Cell biology & Genetics				✓	To know the functions of organelles and hereditary diseases
17UZY4N3	Non Major Elective: Food and Nutrition	✓	✓	✓	✓	importance of food and Nutritional deficiency
17UZY4N4	Non Major Elective: Biopharmaceuticals	✓	✓	✓	✓	Understand the biological systems and metabolism of drugs, drug production and quality



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Course code	Course title	Need				Rationale	
		Local	National	Regional	Global		
16UZY507	Core Major Paper –VII Developmental Biology & Endocrinology		✓		✓	to know the embryo development and functions endocrine glands	
16UZY508	Core Major Paper –VIII Biotechnology	✓	✓	✓	✓	Advanced Techniques by using organisms	
16UZY509	Core Major Paper –IX Biostatistics& Biophysics	✓	✓	✓	✓	applications of instruments and statistical analysis	
16UZY510	Core Elective Paper - I Medical Laboratory Techniques	✓	✓	✓	✓	sample analysis and disease diagnosis	
16UZY511	Core Elective Paper– II Bioinformatics and Cyber Security		✓	✓	✓	Basic bioinformatics tools and Nanobiotechnology	
16UZY5S1	Skill Based Elective- Apiculture	✓	✓	✓		Rearing of Honey bees and their types	
16UZY5S2	Skill Based Elective –Insect Pest Management	✓	✓	✓		Control the insect pest attacks	
16UZY612	Core Major Paper –XII: Animal Physiology and Biochemistry	✓	✓	✓	✓	physiological activities of animals and metabolic activities of macronutrients	
16UZY613	Core Major Paper –XIII: Ecology & Evolution	✓	✓	✓	✓	Environmental pollution and evolving the new organisms from ancestors	
16UZY614	Core Major Paper –XIV: Microbiology and Immunology	✓	✓	✓	✓	Applications in microbiology and immunization and vaccination	

16UZY615	Core Major Paper- XV Sericulture	✓	✓	✓		Silkworm rearing techniques
16UZY616	Core Elective -III Aquaculture	✓	✓	✓	✓	preparing, culturing and maintaining the aquarium and commercial important species
16UZY617	Major Practical III : Developmental Biology & Endocrinology, Biostatistics & Biophysics, , Animal Physiology & Biochemistry and MLT	✓		✓		Hands on training on haematology
16UZY 618	Major Practical IV: Ecology, Evolution, Biotechnology, Microbiology, Sericulture and Aquaculture	✓		✓		Study the environmental quality, microbiology, rearing of fishes and silkworms
16UZY6S3	Skill Based Elective Vermiculture	✓	✓	✓		Natural biofertilizer production, maintenance and marketing
16UZY6S4	Skill Based Elective Poultry Science and Management	✓	✓	✓	✓	rearing techniques of poultry birds


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