DEPARTMENT OF ZOOLOGY OF BERHAMPORE GIRLS COLLEGE

Module wise Syllabus distribution of 4th SEM B.Sc. Zoology GE Course
(January to June, 2020)

Details about Teachers

Sl No	Name of the Teacher	Designation	Contact No	E mail id
1	Bhaskar Mahanayak (BM)	Assistant Professor and Head of the Dept.	6295260820	bmahanayak@gmail.com
2	Rabiul Hoque (RH)	Assistant Professor	9609268155	rhrabiulhaque486@gmail.com
3	Sarmistha Chattopadhyay (SC)	Guest Lecturer	9735602335	
4	Tania Mondal (TM)	Guest Lecturer	8900548572	mondaltania20@gmail.com
5	Sanchari Chatterjee (SCC)	Guest Lecturer	9609549056	sanchar.sylvan@gmail.com
6	Debashree Konar Chowdhury (DKC)	Guest Lecturer	7031569916	debashreekonar@gmail.com
7	Somrita Rudra (SR)	Guest Lecturer	8016549943	somritarudra8@gmail.com
8	Deepsikha Mukherjee (DM)	Guest Lecturer	6294263865	deepsikhamukherjee103@gmail.com
9	Soumima Chattoraj (SMC)	Guest Lecturer	7044108774	soumimachattoraj007@gmail.com

Details about Non-teaching staff

Sl No	Name of the Staff	Designation	Contact No	Email Id
1	Mithu Hazra	Lab Attendant	9609252150	
2	Rajesh Nabik	Lab Attendant (Casual)	7872114179	

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Course Code: ZOOL-H-GE-T-04			Course Title: Comparative Anatomy, Developmental Biology of Vertebrates and Ecology	
Theory (Total 60 Lectures)				
Unit	Name of teacher	Topic	Sub-Topics	No of Classes
1	BM	**Integumentary System**	Structure, function and derivatives of integument in mammals.	4
2	BM	**Skeletal System**	Jaw suspensions	4
3	DKC	**Digestive System**	Teeth	4
4	DKC	**Circulatory System**	Comparative account of heart and aortic arches.	4
5	SCC	**Urinogenital System**	Succession of kidney, Types of mammalian uteri.	4
6	SCC	**Nervous System**	Cranial nerves in mammals.	4
7	DM	**Early Embryonic Development**	Spermatogenesis, Oogenesis; Types of eggs, Egg membranes; Fertilization (External and Internal): Planes and patterns of cleavage; Embryonic induction and organizers.	6
8	BM	**Late Embryonic Development**	Fate of Germ Layers; Extra-embryonic membranes in birds.	4
9	BM	**Post Embryonic Development**	Regeneration:Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each).	3
10	DM	**Introduction to Ecology**	Autecology and synecology, Levelsoforganization.	3
11	SCC	**Population and Community**	Geometric,exponential and logistic growth,equation,Gause's Principle with laboratory and field examples. Community characteristics :species diversity, abundance, dominance, richness.Vertical stratification. Ecological succession with one example.	7
12	DKC	**Ecosystem**	Foodchain: Detritus and grazing food chains, Linear and Y-shaped foodchains, Foodweb, Energy flow through the ecosystem, Ecological	7

			pyramids.	
13	DM	**Applied Ecology**	Wildlife Conservation (in-situ and ex-situ conservation). Management strategies for tiger conservation; Wildlife protection act(1972)	6
Practical (Total 30 Lectures)				
1	SR		Study of placoid, cycloid and ctenoid scales through permanent slides/photographs	4
2	SC		Study of disarticulated skeleton of Toad/Pigeon/Guineapig.	4
3	SR		Demonstration of Carapace and plastron of turtle OR Identification of mammalian skulls: One herbivorous (Guineapig) and one carnivorous (Dog) animal	4
4	SC		Dissection of Tilapia/carp: Circulatory system/urinogenital system; brain/pituitary.	4
5	SR		Study of whole mounts of developmental stages of chick through permanent slides: 24, 48, 72, and 96 hours of incubation.	4
6	SC		Study of an aquatic ecosystem: Phytoplankton and zooplankton, determination of pH, and Dissolved Oxygen content (Winkler's method) and free CO_2.	6
7	SR		Report on a one-day visit to Sanctuary/Zoo/Sericulture station/Fishery/apiculture station/pond ecosystem/agroecosystem.	4