

DEPARTMENT OF ZOOLOGY OF BERHAMPORE GIRLS COLLEGE

**Module wise Syllabus distribution of 2nd SEM B.Sc. Zoology CCG (Program) Courses
(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 Chatteraj (SMC)	Guest Lecturer	7044108774	soumimachatteraj007@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	

Module wise Syllabus distribution of 2nd SEM ZOOLOGY CCG (Program) Course

(January to June 2020)

Course Code: ZOOL-CCG-T-02		Course Title: Comparative Anatomy, Developmental Biology of Vertebrates and Ecology		
Theory (Total 60 Lectures)				
Unit	Name of teacher	Topics	Sub-Topics	No of Classes
1	DM	Integumentary System	Structure, function and derivatives of integument in mammals.	4
2	DM	Skeletal System	Jaw suspensions	4
3	SR	Digestive System	Teeth	4
4	SR	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	DM	Late Embryonic Development	Fate of Germ Layers; Extra-embryonic membranes in birds.	4
9	SR	Post Embryonic Development	Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each).	3
10	SR	Introduction to Ecology	Autecology and synecology, Levels of organization.	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	SCC	Ecosystem	Foodchain: Detritus and grazing food chains, Linear and Y-shaped	7

			foodchains, Foodweb, Energy flow through the ecosystem, Ecological pyramids.	
13	SR	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	TM		Study of placoid, cycloid and ctenoid scales through permanent slides/photographs	4
2	SCC		Study of disarticulated skeleton of Toad/Pigeon/Guineapig.	4
3	SCC		Demonstration of Carapace and plastron of turtle OR Identification of mammalian skulls: One herbivorous (Guineapig) and one carnivorous (Dog) animal	4
4	TM		Dissection of Tilapia/carp: Circulatory system/urinogenital system; brain/pituitary.	4
5	SCC		Study of whole mounts of developmental stages of chick through permanent slides: 24, 48, 72, and 96 hours of incubation.	4
6	TM		Study of an aquatic ecosystem: Phytoplankton and zooplankton, determination of pH, and Dissolved Oxygen content (Winkler's method) and free CO ₂ .	6
7	SCC		Report on a one-day visit to Sanctuary/Zoo/Sericulture station/Fishery/apiculture station/pond ecosystem/agroecosystem.	4