

**Department of Zoology**

**Academic Calender and Academic Plan**

**1st Semester General Course (July 2018 - Dec 2018) CC / GE / GEH**

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during the month and year	No of PPT classes	Continuous Internal Assesment in which month
CC / GE / GEH	Unit 1	Kingdom Protista	AD	July		Aug
CC / GE / GEH	Unit 2	Phylum Porifera	CS	July	1	Aug
CC / GE / GEH	Unit 3	Phylum Cnidaria	CS	July	1	Aug
CC / GE / GEH	Unit 4	Phylum Platyhelminthes	CS	Aug	1	Sept
CC / GE / GEH	Unit 5	Phylum Nematelminthes	AM	Aug	1	Sept
CC / GE / GEH	Unit 6	Phylum Annelida	CS	Aug	1	Sept

CC / GE / GEH	Unit 7	Phylum Arthropoda	AM	July	1	Aug
CC / GE / GEH	Unit 8	Phylum Mollusca	CS	Sept	1	Nov
CC / GE / GEH	Unit 9	Phylum Echinodermata	CS	Sept	1	Nov
CC / GE / GEH	Unit 10	Protochordates	AM	Aug		Sept
CC / GE / GEH	Unit 11	Agnatha	ABN	July		Aug
CC / GE / GEH	Unit 12	Pisces	ABN	Aug		Sept
CC / GE / GEH	Unit 13	Amphibia	AM	Sept		Nov
CC / GE / GEH	Unit 14	Reptiles	CS	Sept		Nov

CC / GE / GEH	Unit 15	Aves	CS	Oct/Nov		Nov
CC / GE / GEH	Unit 16	Mammals	AM	Oct/Nov		Nov
CC / GE / GEH	Unit 17	Non-chordates and Chordates Practical II	ABN, CS	Aug - Nov	2	

**Course Outcome**  
 This course gives knowledge of classical zoology to a student which is a pre-requisite of learning Zoology at graduation level. The student learns to recognize and apply basics of animal classification, taxonomy and systematics by studying animal kingdom at various taxonomic levels. Identification of museum specimen on the basis of theoretical learning strengthens knowledge of classification due to visual practice. Identification of poisonous and non-poisonous snakes is obligatory for a student of zoology residing in Sunderbans.

**2nd Semester General Course (Jan 2019 - June 2019) CC / GE / GEH**

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during the month and year	No of PPT classes	Continuous Internal Assessment in which month
CC / GE / GEH	Unit 1	Integumentary System	AM	Jan		Feb
CC / GE / GEH	Unit 2	Digestive system	AM	Feb		Mar

CC / GE / GEH	Unit 3	Respiratory System	AM	Mar		April
CC / GE / GEH	Unit 4	Circulatory System	CS	Jan	1	Feb
CC / GE / GEH	Unit 5	Urino - genital System	AM	April		May
CC / GE / GEH	Unit 6	Early Embryonic Development	CS/AD	Feb/Mar	2	April
CC / GE / GEH	Unit 7	Late Embryonic Development	CS/AD	April/Ma y	1	May
CC / GE / GEH	Unit 8	Identification of Bones, larval stages, Developmental stages of chick embryo and Histological study of different types of Placenta.	AM/AD/CS	Jan-April	2	
<b>Course Outcome</b>	The external basis of animal classification is supported by comparative study of various animal systems in chordates. It gives a macroscopic understanding of evolution of these biological systems in consecutive animal groups. Basics of embryonic development, study of bones and study of different types of placenta and larval stages enables a student of pass course to gain adequate knowledge in Zoology to face competitive examinations.					
<b>3rd Semester General Course (July 2019 - Dec 2019) CC / GE / GEH</b>						

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during the month and year	No of PPT classes	Continuous Internal Assessment in which month
CC / GE / GEH	Unit 1	Nerve and muscle	CS	JULY	1	AUG
CC / GE / GEH	Unit 2	Digestion	CS	AUG		SEPT
CC / GE / GEH	Unit 3	Respiration	CS	AUG	1	SEPT
CC / GE / GEH	Unit 4	Cardio-vascular System	CS	AUG		SEPT
CC / GE / GEH	Unit 5	Excretion	CS	NOV	1	Nov
CC / GE / GEH	Unit 6	Reproduction and Endocrine glands	CS/AD	SEP	4	Nov

CC / GE / GEH	Unit 6	Carbohydrates Metabolism	AD	JULY		Aug
CC / GE / GEH	Unit 7	Lipid Metabolism	AM	JULY		Aug
CC / GE / GEH	Unit 8	Protein Metabolism	AM	AUG		Sept
CC / GE / GEH	Unit 9	Enzymes	AD	SEP		Nov
CC / GE / GEH	Unit 10	Study of permanent Histological Sections of Mammalian Tissues.	CS/AD	AUG-NOV	1	
CC / GE / GEH	Unit 11	Qualitative test for Carbohydrates samples	AD	AUG		
Course Outcome	The biochemistry and physiology aspect of animal systems is covered here to give an overall knowledge of Zoology to a pass course student, to be able to opt for diverse fields of studies after graduation.					
<b>3rd Semester General Course (July 2019 - Dec 2019) SEC</b>						

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during the month and year	No of PPT classes	Continuous Internal Assessment in which month
SEC						
SEC						
SEC						
SEC						
SEC						
SEC						
SEC						
SEC						
Course Outcome						
4th Semester General Course (Jan 2020 - Jun 2020) CC / GE / GEH						

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during the month and year	No of PPT classes	Continuous Internal Assessment in which month
CC / GE / GEH	Unit 1	Mendalian Genetics and it's extention	CS	JAN	1	FEB
CC / GE / GEH	Unit 2	Linkage and Crossing Over	CS	FEB	1	MAR
CC / GE / GEH	Unit 3	Mutations	CS	MAR	1	APRIL
CC / GE / GEH	Unit 4	Determinations	CS	APRIL	1	MAY
CC / GE / GEH	Unit 5	Origin of Life	AM	JAN		FEB
CC / GE / GEH	Unit 6	Evolutionary theories	AM	FEB		MAR



CC / GE / GEH	Unit 7	Process of Evolutionary changes	AM	MAR		APRIL
CC / GE / GEH	Unit 8	Speciation	AM	APRIL		MAY
CC / GE / GEH	Unit 9	Verification of Mendelian ratio using Chi square test	CS	JAN	1	
CC / GE / GEH	Unit 10	Identification of human aneuploidy using photograph of karyotype.	CS	FEB	1	
CC / GE / GEH	Unit 11	Phylogeny of horse with diagram of limb and skull	CS	MAR	1	
CC / GE / GEH	Unit 12	Study and Identification of Darwin finches from photographs	CS	APRIL	1	
CC / GE / GEH	Unit 13	Visit to natural history museum and submission of report.	AM	FEB		
Course Outcome	Genetics and evolutionary studies are the underlying factors behind animal classification and taxonomy. A student of pass course learns selected topics from these papers to be at par with the graduation courses in Zoology followed in different universities of the country.					
<b>4th Semester General Course (Jan 2020 - Jun 2020) SEC</b>						

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during the month and year	No of PPT classes	Continuous Internal Assessment in which month
SEC						
SEC						
SEC						
SEC						
SEC						
SEC						
SEC						
SEC						
Course Outcome						