Course Outcome P.Sc. IST Vear 2023-2024

Course	cours	e Outcome B.Sc. Ist Year, 2023-2024
Code	course	Course Outcomes
Paper -II	Name  Animal Diversity Non- Chordata and Chordata, Co,putative Anatomy and Phsiology of Non-chordates  Cell Biology, Histology and Comparative Anatomy & Physiology of Chordates	Upon completion of the course students should be able to:  Learn about the importance of systemic, taxonomy and phylogeny to get a concrete idea of evolution of non-chordate phyla.  Understand the various morphological, anatomical structures and functions ofanimals of different phyla.  Get the knowledge about economic, ecological and medical significance of various animals in human welfare.  Understand the important parasites and their control measures.  Comparison of the anatomy and physiology of the different taxa of non-chordates.  At the end of this course, the students will be able:  Understand the basic structure, functioning of the cell and cell organelles and understand the intricate cellular mechanisms involved.  Understand the tissues, how tissues are produced from cells in a normal course and about any malfunctioning which may lead to benign or malignant tumor.  Develop an understanding of the evolution of vertebrates thus integrating structure, function and development.  Understand the morphological, anatomical and physiological adaptation in diverse habitats.  5. Develop an understanding of the evolution of vertebrates thus integrating structure, function and development.
Prectical	Course Learning	After completion of practical work the outcome will be:
paper	Outcomes	Able to know animal diversity in the form of museum / slide for invertenrate and invertabrates.
	fa s a	Capable to enumerate biology of invertebrates.
- K	a ta' a	<ul> <li>Capable to explore anatomy of animas.</li> </ul>
		<ul> <li>Able to understand cytological, histological and osteological configuration for animal life.</li> <li>Capable to explain hematology of animal system.</li> </ul>

## Course Outcomes: B.Sc.- Il Zoology

Paper	Course	Course Outcomes
Code	Name	After completing this course, students will be able to:
Paper-I	Anatomy and	CO-1. Understand the terms Histology and Physiology.
(Code- 0363)	Physiology	CO-2. To understand the comparative and histological studies of systems such as digestive, respiratory, nervous, circulatory, excretory and reproductive system of vertebrates.
		CO-4. Study the derivatives of skin- horns, nails, hairs to understand
		Integume
		ntand its derivatives, and Integument's Structure,
	Table 1	CO-5.Understand the Digestion and Excretion process, by studying
		theOrgans of it.
		CO-6.Understand the Circulatory system .
	·	CO-7.Study the nerve impulse and muscle contraction.
	ell personne - Go	CO-8. Understand the Studies of the following systems: The Sense Organs,
		Endocrine glands and Exocrine glands.
		CO-9. To understand Digestion and absorption of proteins, Carbohydrates
		and lipids.
		CO-10. To understand Fat body: Structure, physiology, biochemistry,
		functions. Integration of carbohydrate, fat and acid metabolism
		CO-11. Excretion and water balance: Structure and function of malphigian
		tubules. Water balance and nitrogen excretion.
Paper-II		CO-1.To understand Reproductive organ: male and female gonads, duct systems and sex accessories, external sexual dimorphisms
(Code-	Vertebrate Endocrinology	CO-2. Understand the Reproductive patterns: Environmental factors and
0864)	Reproductive	breeding, continuous and seasonal breeders.
	Biology,	CO-3.Understand the Sexual cycles: puberty, oestrous and menstrual cycles.
	Behavior,	Ovarian event: follicular phase, cycling of non-pregnant uterus.
~ (	Evolution and	CO-4.To understands Pregnancy: conception and blastocyst formation,
	Applied	
*	Zoology.	implantation and delayed implantation, placenta:formation, types and functions, hormones in pregnancy.

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		CO-5. To understand Origin of life with respect to prokaryotic and
		eukaryotic cells.
	!	CO-6, Understand the evidences of organic evolution by anatomical
		embryological list, paleontological, physiological, genetics and
	\$ \\	molecular biology evidences.
1		CO-7. Understand theories of organic evolution, isolation, speciation.
	1	CO-8. Understand geological time scale, methods and classification of
		animal distribution and factors affecting animal distribution.
		CO-9. To understand significance of beneficial and harmful insects with
1		reference to their habit and habitat, life cycle, diseases caused by
		them and their control measures.
		CO-10. Students know about economically important Fishery, Poultry, Goat
	1	and sheep farming.
	- !	CO-11. To understand the Aquaculture concept, Culture systems:
ļ		Freshwater aquaculture systems: Freshwater prawn culture, fish
	1	culture in paddy fields, Brackish water culture, Marinculture:
		Oysterculture, mussel culture.
		CO-12. To understand the Composite fish culture and Preparation and management
!	:	of fish culture ponds.fish seed and Brood fish and Harvesting.
1	1	CO-13.To understand Fresh water prawn culture and Pearl culture, Pearl
	1	producing mollusks, pearl formation, collection of oysters, rearing
	1	of oysters, insertion of nucleus, harvesting of pearls, composition &
		quality of pearl. Apiculture, Serlculture, Prawn culture
	]	CO-14.Understand the Household insects, Insects of commercial value and
,	1	stored grain pests.
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Practical	Chordates	CO-1. To understand the morphology Histology and Anatomy of vertebrates by
Work	histology,	Studying Class wise Museum Specimen and Permanent slides of animals.
(Code-	anatomy, physiology.	CO-2. To understand the morphology and Anatomy of vertebrates by alternative
	Osteology,	Dissection methods like Clay models, Charts, Thermocol, virtual Dissection, Drawing etc. of animals.
	Social Insects.	CO-3. To understand Organisation of Inscet by studying Museum
	, ,	specimens and permanent slides of Hymenopteran insect.
ļ		CO-4. Comperative study of endoskeleton of tetrapods.
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## Course Outcomes: B.Sc.-III Zoology

Paper	Course Name	Course Outcomes
Code		
Paper-1	Ecology, Ecosystem	CO-1.Know the biotic and abiotic components of ecosystem.
	Texicology, Microbiology and Parasitology	CO-2.Food chain & food web in ecosystem.
		CO-3. Understand diversity among various groups of animal kingdom.
		CO-4.Understand Animal community & ecological adaptation in animals.
		CO-5. To understand Scope, importance and management of Biodiversity.
Constant of the Constant of th		CO-6.To understands the Biosphere: Introduction,
		hydrosphere, lithosphere, atmosphere.
		CO-7. To understand Pollution: Kinds of pollution and pollutants (Air,
		Water, Soil, Noise etc.).To understands pollution:
- 1777 1	To ATT AND CONTRACT OF THE PARTY OF THE PART	Characteristics of sound, source and effects of noise pollution.
Control of the Contro		CO-8. Understand the Population and community ecology, wetland forest
Selection of the Association of		and their conservation.
take of the same of		CO-9. Scope, importance and management of biodiversity.
4000		CO-10. To aware the students for various parasites and diseases which
on the same of the		spreads in human with the help of study of host-parasite
	# Charles	relationship.
Marine Comment		CO-11. To increase awareness for the health in students.
	Transference T venue	CO-12. Understand the various disease causing vectors like Mosquitoes.
		CO-13. To aware about the typhoid, cholera likes disease.
		CO-14.To Understand the classification, geographical distribution
		,morphology, life-cycle, transmission, pathogenecity ,treatment
-		and prophylaxis of: Protozoa, Platyhelminthes, Nematoda.To
The state of the s	No. of the Control of	understand Leishmania & Trypanosoma: Plasmodium, Resistance
A Transport of the Control of the Co	*	of Malaria to drugs, its mechanism & assessment, Platyhelminthes
emilione-parents.	¥.	and Nematodes.
		CO-15. To understand the Study of life cycle, role as vector & control

		measures of: Mosquito - anyone from- Anopheles/ Aedes / Culex.
		CO-16.To understands Parasitic protozoans and their role in human
		welfare, soil protozoans and their role in agriculture.
		CO-17. Understand human and animal parasites likesprochaetes,
		Rickettsia etc.
	<i>ST</i>	CO-18. Study the Methods of preparation and application of Milk and
		milk products.
	,	CO-19. Study the Methods of preparation and application of Beverage, antibiotics.
		CO-20. Study the process of sewage water treatment
	Genetics, Cell Physiology,	CO-1.Understand the cell physiology.
	Biochemistry,	CO-2.Understand the terms-Osmosis, diffusion, pH and Buffer.
	Biotechnology and	CO-3.Understand the various Applications of Biotechnology.
	instrumentation	CO-4. Understand the term pH, Buffer.
		CO-5. Understand the structure and function of carbohydrate, amino acids,
4		proteins, and lipids.
	1	CO-6. Understand the concept Enzymes and also Vitamins and minerals.
		CO-7. Understand the Principle role of Vitamins in metabolism and
		Deficiency diseases.
		CO-8. Study and Understand the Hybridoma technology as well as
		Enzyme biotechnology.
		CO-9. Study and understand the DNA Recombinant technology.
		CO-10. Understand the industrial and environmental biotechnology.
		CO- 11. Understand the Scope and Significance of Biotechnology.
a		CO-12. Understand the Principles of Genetics: Mendalian and Non-
		Mendalian Inheritance. Linkage, Crossing over, gene Mapping,
		Multiple allelism, Pliotropism etc.
~		CO-13.Understanding the Principles and uses of various instruments like
		Microscope, Centrifuge, Colorimeter, Spectrophotometer,
		electrophoresis, Chromatography ect.
		ĆO-14. Study and understand the procedure of Histochemical analysis of
	,	various Organic compounds.
		railous Organic compounds.

Practical	Ecology,	CO-1. To understand the concept of ecology by using practical tools like
Work	Haematology,	Quadrant.
	cytology, Parasitology, and	CO-2. To understand the process of different parameters of Blood test by
Instrumentation.	using Haemocytometer, haemoglobinometer, Blood group testing	
		kit, clotting time ,haematin crystals etc.
		CO-3. To study the various human parasite slide to undersatand their life
		cycle, pathogenecity, transmission and their vector host.
		CO-4. Understand the process of operating various laboratory equipments
x		like microscope, Colorimeter, Spectroscope, Chromatograph,
		Centrifuge.
		CO-5. Understand the process of Biochemical analysis of different
		compoundd.

Govt. College, Pandaria Distt. Kabırdham (C.G.)