INDIRA GANDHI GOVT. COLLEGE PANDARIYA

Department of Zoology

B.Sc. Program Outcomes:-

B.sc Program Specific Outcomes (PSOS):-

By the end of this course, the students will be able to:-

- 1- Understand the basic concepts of all the types of animals (Vertebrates and non-vertebrates).
- 2- Understand the evolution, classification, anatomical details of higher group of animals.
- 3- Analyze the cell organelles and application of genetics, molecular biology of animal cell.
- 4- Identify the bacteria, viruses and animal pathogens.
- 5- Analyze metabolic activities of animals.
- 6- Understand the application of genetic engineering for the improvement species of animals.
- 7- Understand the basic concepts of ecology
- 8- Perform the procedure of laboratory technique in biochemistry, biotechnology and important of animals.
- 9- Prepare the students for many competitive exams like MPSC, UPSC, NEET, SET, GATE.

S. No.	Class	Course (Paper)	Course Outcomes
1	B.Sc- I	Cytology	1. The cell structure in relation to function of cells the fundamental unit of life, are concerned in this course along with molecules present in cells.
			2. Apply the principles of cell biology in designing experiment, statistical analysis, and interpretation of
			 Operate and solve exercise using computation statistics software.
			4. Get acquitted with basic approach in the research methodology.
		Protozoan	Understand the basic concept of bacteria, viruses and protozoan.
			Analyze economic importance of bacteria and virus.
			3. Discuss the life cycle of protozoan.
2	B.Sc II	Animal Physiology	1. Students will be able to Understand the various physiology life processes in animals.
			They Understand the role of various hormones, signaling

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				compounds,
				thermodynamics and
				enzyme kinetics.
			3.	During the course student
		3		will gain knowledge about
				the various mechanisms such
				as digestion, respiration
				circulation and reproduction.
		Metabolism	1.	After completion of the
				course the students are
				familiar with various
				physiology aspects involved
1				in the plant development. Also the role of enzymes in it
			2.	and mechanism of
				photosynthesis, respiration,
				nitrogen and lipid
				metabolism.
			3.	The student are able to
			5.	isolate starch, pectin and
				various nutritive products
				form the plants
			4	Quantities and quantification
			7.	of the animal cell content
				and its biochemistry and
				mode/mechanism of
				synthesis etc.
3	B.Sc III	Genetics	1.	After successful completion
	D.Sc. 111	Genetics		of this course, students will
				be able to Acquaint with the
				concepts in prokaryotic,
				eukaryotic and viral genetics
			2.	Explain central dogma of
				molecular biology
	*			(replication, transcription
				and translation).
			3.	Enlist and explain types of
				mutation, gene regulation
				and transposable element.
			4.	Conversant with laboratory
				Techniques via, Microscopy,
				SEM and TEM,
				Ultracentrifugation, PCR,
				GISH, FISH and
				immunochemical
				techniques. The flow
				cytometer and confocal microscopy in karyotype
				analysis.
			5.	Isolation of plant DNA and its
			J.	quantification. Isolation of
				RNA and its quantitation.
		·		Estimation of seed proteins.
		Microbiology, Phycology and Mycology	1.	Comprehend the diversity of
		merosiology, r hycology and mycology		lower cryptograms (Algae,
				Fungi, Bacteria, Phytoplasam
			,	and viruses.). Collection and
				study of algae, fungi,
				bacteria from different
				localities, identification up to
				generic level.

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		2.	Recognize the morphology, anatomy, physiology, reproduction and lifecycle pattern.
		3.	's s s s s
		4.	Positive and negative values.
	Metabolism	1.	After completion of the course the students are familiar with various physiology aspects involved in the plant development.
		2.	Also the role of enzymes in it and mechanism of photosynthesis, respiration, nitrogen and lipid metabolism.
		3.	isolate starch, pectin and various nutritive products from the plants.
		4.	Quantities and quantification of the animal cell content and its biochemistry and mode/mechanism of synthesis etc.
	Ecology -I	1.	
		2.	To analyze the threat and suggest conservation measure.
		3.	The student are also trained in the environmental impact analysis.
		4.	Student are able to analyze, monitor various physical, chemical and biological properties of soil water and
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