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PROGRAMME OUTCOME

Department of ZOOLOGY

Objectives	Programme Outcome
To enable students gain requisite	On graduation, the student will have the
knowledge and acquire ability to	following abilities:
apply them as and when required	 a) A fundamental as well as a higher level of understanding, comprehension, analysis and articulation of concepts studied.
	 b) Will have the ability to identify problems/issues and come up with creative solutions.

SEMESTER - I

	COURSE OUTCOME	Papers	Learning
			Outcome &
			ATTAINMENT
			Level
CO 1	Describe and define the life cycle features and		
	peculiarities among non-coelomate non-		SGPA on basis of
	chordates	Core	Credits earned
CO 2	The study of general characteristics and	Course	from MSE (Mid
	classification of non-chordate phyla ranging from	Paper I & II	Semester
	Protista through pseudocoelomates.	GE 1A	Examinations or
CO 3	Study and acquire knowledge in applied Ecology		CIA-Continuous
	and develop comprehensive ideas on food chain,		Internal
	ecological pyramids, biogeochemical cycle,		Assessments) &
	physical factors, population and community.		ESE (End
CO 4	Various biometry formulas such as mean,		Semester
	standard deviation, chi-square test, and students		Examinations)
	t-test help pupils develop basic data analytical		
	power.		
CO 5	To assess-evaluate and summarize the complex		
	topics/issues concerning these lower phyla of		
	animal kingdom.		
CO 6	A student should be able to articulate, express		
	verbally or demonstrate/write comprehensively		
	on any of the topics covered.		

SEMESTER - II

	COURSE OUTCOME	Papers	LO & ATTAINMENT Level
CO 1	Describe and define the life cycle features	Core Course	SGPA on basis of Credits
	and peculiarities among coelomate non-	Paper III &	earned from MSE (Mid
	chordates	IV GE -2A	Semester Examinations or
CO 2	Non-chordate phyla from Annelida to		CIA-Continuous Internal
	Echinodermata are studied for their general		Assessments) & ESE (End
	characteristics and categorization		Semester Examinations)
CO 3	Identify specific, type genus and species of		
	Viruses, viroid, mycoplasma, prions and		
	various model of plasma membrane		
	structure with different types of transport		
	and junctions in Prokaryotic-Eukaryotic		
	cells.		
CO 4	Learn about the structure and functions of		
	different cell organelles with its cellular		
	aspects of a phenomenon, process or		
	structure of cells.		
CO 5	Ability to Summarize all the biological		
	concepts illustrated through the topics		
	studied and self-assess the understanding		
	levels		
CO 6	Develop writing skills on the above themes		
	by discussing or writing in the form of brief		
	and/or extensive, topic-specific notes.		

SEMESTER - III

	COURSE OUTCOME	PAPERS	LO &
			ATTAINMENT
			Level
CO 1	Define and elaborate description	Core Course	SGPA on basis
	about the diversity and distribution	Paper V,VI	of Credits
	of chordates according to their	& VII	earned from
	geographical realms.	GE -3A	MSE (Mid
CO 2	Study of the characteristics and		Semester
	classification with different		Examinations
	features and connective link among		or CIA-
	chordates.		Continuous
CO 3	Comprehend the different physiological		Internal
	processes in controlling and		Assessments)
00.4	coordination systems of animals.		& ESE (End
CO 4	Have fundamental knowledge of		Semester
	biochemistry of different		Examinations)
	biomolecules like carbohydrates,		
	protein, lipids, nucleic acid.		
CO 5	Learn about the enzymes and the		
	mechanisms of enzyme action with		
	its theoretical plot and derivations.		
CO 6	Ability in conceptualizing the above		
	prescribed topics		

SEMESTER IV

	COURSE OUTCOME	PAPERS	LO &
			ATTAINMENT
			Level
CO 1	Have a clear idea on the anatomical difference	Core	SGPA on basis
	among vertebrates through comparative study	Course	of Credits
	of integumentary, skeletons, nervous, digestive,	Paper	earned from
	respiratory, circulatory and urinogenital systems.	VIII, IX	MSE (Mid
CO 2	Develop comprehensive ideas on physiology of	& X	Semester
	life sustaining system as study of mechanical and	GE -3A	Examinations
	chemical digestion and absorption of different		or CIA-
	types of molecules, mechanism of transportation		Continuous
	of gases with its influencing factors and		Internal
	regulation of water balance and excretion in		Assessments)
	renal portal system.		& ESE (End
CO 3	Develop basic ideas on physiology, functions and		Semester
	regulation of cardiology with formation and		Examinations)
	circulatory pathway of blood.		
CO 4	Develop comprehensive ideas to understand		
	biochemical pathways of different metabolic		
	processes.		
CO 5	Different pathological experiments relating to		
	various physiological and biochemical processes		
	might be demonstrated by students.		
CO 6	Students can develop to handle different types		
	of instruments through different wet lab		
	experiments.		

SEMESTER V

	COURSE OUTCOME	PAPERS	LO(Learning Outcome) & ATTAINMENT Level
CO 1	Have a clear idea on the mechanisms involved	Core	SGPA on basis of
	in storage, processing and transmission of bio-	Course	Credits earned
	genetic information through DNA replication.	Paper XI &	from MSE (Mid
	Transcription and Translation, post	XII	Semester
	transcriptional modification, RNA processing,	DSE-I &II	Examinations or
	gene regulation in Pro & Eukaryotic systems.		CIA-Continuous
CO 2	Develops knowledge on principles of		Internal
	mendelian genetic, mutations, sex		Assessments) &
	determination, inheritance, recombination in		ESE (End
	bacteria and virus & transposable genetic		Semester
	elements.		Examinations)
CO 3	Describe in detail of the chronobiology and		
	develop various ideas on several behavioral		
	study of different animals.		
CO 4	Develop clear-cut ideas on health issues, its		
	responsible immune systems and their		
	immunological responses from MHC,		
	cytokines, complement system,		
	hypersensitivity and different immunoassays.		
CO 5	The different cytogenetical techniques like		
	prepare different culture mediums,		
	quantitative estimations and immunoassays		
	handled by students in laboratory.		
CO 6	While a student is able to critically analyze the		
	topics enunciated above can evaluate and		
	state the concepts and phenomenon clearly		
	that underlie the above-mentioned subjects.		

SEMESTER VI

	COURSE OUTCOME	PAPERS	Learning Outcome & ATTAINMENT Level
CO 1	Define and describe the Concepts and	Core	SGPA on basis
	theories of evolutionary history and changes	Course	of Credits
	of different animals with origin of species.	Paper XIII	earned from
CO 2	Study of embryological development and	& XIV	MSE (Mid
	embryonic stages, post embryonic	DSE-III &	Semester
	developments of different animals.	DSE IV	Examinations
CO 3	Thorough study of wildlife values, laws,	Project	or CIA-
	ethics, management, trade, crime, census of	work	Continuous
	wildlife animals.		Internal
CO 4	Students learn the fundamentals of e-		Assessments)
	learning by searching for and downloading		& ESE (End
	various research articles on Google Scholar		Semester
CO 5	Develop writing skills on the above themes		Examinations)
	by discussing or writing in the form of brief		
	and/or extensive, topic-specific notes.		The final CGPA
CO 6	Basic research principles, general laboratory		attained at the
	techniques, data collecting and		Final Semester
	documentation, scientific writing and its		is calculated
	presentation via oral, Power Point, and		taking all
	poster methods, and how to develop,		SGPAs of all
	design, and execute a science project are all		semester and
	covered.		grading is done
	A Zoology Graduate should be able to		to award
	communicate, articulate, and write		1st/2nd Class
	scientifically on any of the chapters/topics		Honors with
	stated above after completing all six		Distinction.
	semesters.		