B.L.D.E.ASSOCIATION'S

SB ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR

RE-ACCREDITED AT THE 'B^{++}' LEVEL

Bachelor of Science (Zoology)

PROGRAM OUTCOMES

POs	DESCRIPTIONS
PO1:	TheProgrammeoffersbothclassicalas well as modern concepts of Zoology in higher education.
PO2:	It enables the students to study animal diversity in both local and global environments.
PO3:	Tomakethestudy of animals more interesting and relevant to human studies more emphasis is given to branches like behavioural biology, evolutionary biology and economic zoology.
PO4:	More of upcoming areas in cell biology, genetics, molecular biology, biochemistry, genetic engineering and bioinformatics have been also included.
PO5:	Equal importance is given to practical learning and presentation skills of students.
PO6:	The lab courses provide the students necessary skills required for their employability.
PO7:	Skill enhancement courses in classical and applied branches of Zoology enhance enterprising skills of students.
PO8:	The global practices in terms of academic standards and evaluation strategies.
PO9:	Provides opportunity for the mobility of the student both within and across the world.
PO10:	The uniform grading system will benefit the students to move across institutions within India to begin with and across countries.
PO11	It will also enable potential employers in assessing the performance of thecandidates across the world.

Course outcomes

CLASS	PAPER	COURSE OUTCOMES	DESCREPTIONS
B. SC. I SEM	Cytology, Genetics and Infectious Diseases		At the end of the course the student should be able to:
		CO1	To use simple and compound microscopes.
		CO2	To prepare stained slides to observe the cell organelles.
		CO3	To be familiar with the basic principle of life, how a cell divides leading to the growth of anorganism and also reproduces to form new organisms.
		CO4	The chromosomal aberrations by preparing karyotypes.
		CO5	How chromosomal aberrations are inherited in humans by pedigree analysis in familiesThe antigen-antibody reaction
B. SC. II SEM	Biochemistry and Physiology	CO1	At the end of the course the student should be able to understand: Basic structure ofbiomolecules through model making.
		CO2	Develop the skills to identify different types of blood cells.
		CO3	Enhance basic laboratory skill like keen observation, analysis and discussion. Learn thefunctional attributes of biomolecules in animal body.
		CO4	Know uniqueness of enzymes in animal body and their importance through enzymekinetics.
B. SC. III SEM	Molecular Biology, Bioinstrumentation &Techniques in Biology	CO1	After successful accomplishment of the course, the learners will be able to acquire betterunderstanding and comprehensive knowledge regarding most of the essential aspects of Molecular Biology subject which in turn will provide a fantastic opportunity to develop

			professional skill related to the field of molecular biology.
		CO2	The course will mainly focus on the study of principal molecular events of cell incorporating DNA Replication, Transcription and Translation in prokaryotic as wellas eukaryotic organisms.
		CO3	Acquiring knowledge on instrumentation and techniques in biology.
B. SC. IV SEM	**Gene Technology, Immunologyand Computational Biology**	**CO1**	Accurately, safely and appropriately use all the equipment regularly used in Molecular Biology (DNA manipulation, including balances, pipettes, electrophoresis and centrifuges).
		CO2	Prepare chemical solution and reagents to the precision appropriate to the task.
		CO3	Demonstrate knowledge of the biochemical basis underpinning the molecular biologytechniques.
B. SC. V SEM	**Paper – I** **Applied zoology and Ethology**	**CO1**	Student will study the Ecology
		CO2	Student will get the knowledge about Evolution of Horse, Man.
		CO3	Students will learn about the Paleontology
		CO4	Student will learn about the zoogeography
		CO5	They will learn the wild life conservation
	Paper – II **Cell biology, Biotechnology, Biostatics and research methodology**	**CO1**	Students will study about the differentiation of different types of cells and its functions.
		CO2	Students will study the applied aspects of biotechnology in the present context
		CO3	Study will solve the statistical problems related to the standard deviations
		CO4	Students will study about the meaning of research and its different methodologies involved in research

B. SC. VI SEM	**Paper – I** **Reproductive biology**	**CO1**	To demonstrate understanding of the basic concepts and fundamentals of different types of cells and its functions
		CO2	To study the histological functions in the cellular level to the organ grade level
		CO3	To study the hormonal actions and its synthesis from different types of organ sysytems
		CO4	To study the different types of assisted reproductive technologies
	Paper – II **Ecology, Zoogeography and wildlife conservation.**	**CO1**	To study the interactions of biotic and abiotic systems in the ecological level
		CO2	To study the prey and predator relationships in the ecological level and energy level
		CO3	To study the the distribution of fauna during the course of evolution and geographical way
		CO4	To study the aesthetic values of fauna, resources and its conservations

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