MINOR SYLLABUS

ZOOLOGY

FOR

P.G.

EFFECTIVE FROM SESSION 2024-25 ONWARDS



MAHARAJA SUHEL DEV UNIVERSITY

AZAMGARH (U. P.) -276128, INDIA

PREPARED BY

PROF.M.SULTAN AHMAD

HOD, DEPARTMENT OF ZOOLOGY, SHIBLI NATIONAL P.G.COLLEGE, AZMGARH, U.P.

CONVENOR OF ZOOLOGY

MSD STATE UNIVERSITY, AZMAGRH, U.P.

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SUBJECT - ZOOLOGY MINOR	R SEMESTER = 1	
Unit	Topics	Total no. of lectures (30
1	 Cell theory Prokaryotic cells and Eukaryotic cells Methods and Techniques to study cell: Light Microscopes Electron Microscopes Cell organelles and their functions: Mitochondria Nucleus & Ribosome 	B
2	 Study of cell cycle: Process and importance of Mitosisand Meiosis Mendel's Law of Inheritance and its significance Structure of Chromosome Types of chromosomes DNA & RNA 	8
	 5-kingdom classification Outline classification of kingdom Animalia, characteristics and examples of each phylum. Binomial classification 	6

4	Physiology and Chemical Coordination	8
	 Digestive system Respiratory system Circulatory system Introduction to endocrine system Functions and significance of some important hormones such as insulin, ADH, Thyroxin FSH and GH 	

SUBJECT-ZOOLOGY MINOR	SEMESTER- 2	
Unit 1	Topics Human Diseases Lifestyle diseases- Diabetes, Obesity & Fatty liver disease. Agent, prevention, symptoms and cure of- Malaria, Filarial, typhoid Brief information of- AIDS,STD and COVID- 19(corona)	No. Of lectures (30)



2	Food and Health	8
	 Components of food. Concept of balanced diet, nutrients need for different age group people. Dietary sources of Carbohydrates, Protein and lipids vitamins metabolic disorders 	
3		8
	 Concept of evolution Evidences of evolution Theory of Darwin and Lamarck Mutation Adaptive radiation . 	
	 Concept and components of ecosystem Food chain, food web and Ecological pyramids Concept and Importance of biodiversity Global warming, green House Effect and Acid rain Wildlife and its conservation: Hotspots in India, Endangered animals, Extinction, Red data book, Biosphere reserves, National Parks, Sanctuaries. 	6