

**LS-104—Animal Biology [2 Credits]****Dr A C Mondal\* & Dr. Sushil Kumar Jha**

Sl. no.	Topic	Name of the Faculty	No. of lectures
1	Origin and Evolution of Life:  Theories of the origin of life, early earth, modern self-assembly theories, Oparin Haldane theory of chemical evolution, The Miller-Urey experiment, Organic evolution, Development of evolution theory, Darwin's theory, Origin and evolution of human being.	SKJ	4
2	Natural selection: The nature of natural selection, Examples of natural selection, levels of selection, selection of organisms and groups, species selection. Artificial selection, Adaptation: The nature of adaptations, Speciation	SKJ	3
3	Animal Diversity, Animal Kingdom, Animal Classification,:  Basis of classification, levels of organization (Symmetry, diploblastic and triploblastic organization), Coelom, segmentation, Notochord,	SKJ	3
4	Characteristic features of each Phyla:  Protozoa, Porifera, Cnidaria, Platyhelminthes, Nematodes, Annelida, Arthropoda, echinodermata, hemichordata, chordata,	SKJ	3
5	Structural organization in Animals:  Animals Tissues: Epithelial Tissue, connective Tissue, MuscleTissue, Neural Tissue,	SKJ	3
6	Organ system with reference to:  Integumentary system, Muscular and Skeletal system, Digestive system, respiratory system, Circulatory system, Excretory system, nervous system, Sensory and Reproductive systems.	ACM	16

**Total lectures: 32 ± 2**