R. L. S. Y. COLLEGE, RANCHI

DEPARTMENT OF ZOOLOGY

B.Sc. Zoology (Hons)

COURSE OUTCOME

SEMESTER 1

CC1: Non- chordates I

In this unit student will get to know about the early forms of life and a gradual complexity that came with time. With the help of type study of particular organism, student will understand about the nutritive, reproductive and various other survival behaviors of organisms.

CC2: Ecology

This paper will enable the student to develop an understanding about the environment. In this course, the main aspect is to connect the student with its surrounding and become a keen observer of the processes that are running in atmosphere, at the end of this paper student will also learn about wildlife conservation and management.

SEMESTER 2

CC3: Non-chordates II

This paper gives an idea of organisms that have done various adaptations in their body so that they can survive in their environment. Along with this, student will learn about the concept of living fossil that shows transitional changes from one to another phylum.

CC4: Cell biology

In this paper, student will get a detail idea of cell and its types. Cell is a dynamic structural and functional unit of life inside which various structures are present, student will learn about the various cellular processes that run inside a cell and also the mechanism of cellular response as well as its communication within the cell.

SEMESTER 3

CC5: Chordates

This paper gives an idea to the student about the animal that bears its back bone and how it gradually modifies as the organism evolved, not only this, student will also get to know about some special features related to different class of organism

CC6: Physiology

In this paper student will learn about the controlling and coordinating system of human body, this paper will enable the student to understand about the signal conduction in brain, endocrine system that regulate as well as coordinate the entire body.

CC7: Biochemistry

In this paper student will understand about the varieties of biomolecules that are present in nature and how it behaves chemically. The structure and properties have also been discussed in this paper briefly.

SEMESTER 4

SEC 2: Sericulture

In this paper, student will develop an understanding about the process of cultivating silkworm and extraction of silk from them, this paper deals with the biology of silk worm, its rearing and future scope as well as entrepreneurship in sericulture.

CC8: Vertebrate Anatomy

This paper deals with different biological systems that runs in a vertebrate, this paper enable the student to understand the significance and interconnection between the different type sof biological system.

CC9: Physiology

In this paper student will come across the concept of most vital function of human body that helps in sustaining the life. This paper deals with the different bodily functions and its working mechanism. Regulation and interconnection can also be seen in different types of organ system

CC 10: Metabolism

This paper deals with the overall anabolic and catabolic process of various biomolecules and its behavior in different physiological conditions

SEMESTER 5

DSE 1: Biology of insect

This paper gives an idea of the entomology, this paper deals with the taxonomic arrangement of insects, its bodily function and behavior. In this student will also know about the disease and loss caused by insect

DSE 2: Endocrinology

In this paper student will develop an understanding of endocrine system of animal in which they will come across the different endocrine glands and hormones produced by it. This paper also gives an idea of hormonal regulation in human body

CC 11: Molecular biology

In this paper student will get to know about the biological process that runs inside the animal cell as well as its regulation.

CC 12: Genetics

This paper deals with the genetic makeup of animal and its salient features. In this student will come across various types of genetics and modification and its working concept

SEMESTER 6

DSE 3: Fish and fisheries

In this paper student will come across the classification of different fishes, its morphological characters and physiological functions. This paper also put a light on future scope of fisheries in scientific research and its commercialization of fish.

DSE 4: Immunology

This paper deals with the concept of body defense system of animal, in this paper student will come across the concept of antibody, antigen-presentation mechanism and cellular interaction in order to provide immunity.

CC 13: Developmental Biology

In this paper student will develop an understanding about the slow growth process of an embryo. This paper deals with the three stages of embryonic development and its regulatory mechanism

CC 14: Evolution

This paper deals with the beginning of life on earth and its various theories, not only this, student also get a chance to get an idea of evidences of evolution as well as different principles related to evolution.