

SIR C R REDDY COLLEGE FOR WOMEN, ELURU

(Affiliated To Adikavi Nannaya University, Rajamahendravaram)

2020-2021 AB COURSE OUTCOMES

DEPARTMENT OF ZOOLOGY

SIR C R REDDY COLLEGE

FOR WOMEN ELURU

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ELURU**

(Affiliated to Adikavi Nannaya University)

B.Sc. Zoology

Paper – I semester I : Animal diversity Biology of non Chordates

COURSE OUTCOMES:

After the completion of the course, the student should be able to,

CO 1	Understand the phylogeny of life, connecting link between different phyla and appreciate the diversity of fauna
CO 2	Explain the general characters of each phylum and their classification and identify animals using different taxonomical strata.
CO 3	Describe the essentials of each body part of animals and their functioning.
CO 4	Knowledgeable on useful and harmful animals like parasites, insects, shell fishes etc using additional OE resources available in the internet using modern ICT tools.
CO 5	Describe conservation of animal and Nature.

PRACTICAL

- Become skilful to handle microscopes
- Explain slides and specimens based on observations.
- Acquaint with different types of fauna and their classification through sample collection.

**SIR C R REDDY COLLEGE FOR WOMEN,
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(Affiliated to Adikavi Nannaya

University)I B.sc (II Semester)

Semester-II Paper – II : Animal diversity Biology of Chordates

Course Outcomes

CO 1	Develop an aesthetic sense to appreciate the richness of fauna and the precision with which each organism functions
CO 2	Understand the difference between various species and the evolution of complexity in each system.
CO 3	Explain the general characters and classifications of chordates using additional OE resources available in the internet using modern ICT tools.
CO 4	Realize the commercially important animals and their rearing methodologies.
CO 5	Describe animal culture, breeding and could create self-employment by establishing different farms.

PRACTICAL

- Explain more about the morphological identification of animals based on observation of specimens and slides.
- Skillful on mounting of various animal parts and preservation techniques.

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II B.sc

(III Semester)

Subject: Zoology

**Paper-III : Cell Biology, Molecular biology,
Genetics and Evolution**

Course Outcomes :

CO 1	Understand the variation of species with its basic and functional unit that is cell and its components.
CO 2	Overview of the central dogma of life and various molecular events.
CO 3	Learning molecular events in the DNA replication and role of different enzymes, Molecular Events of Transcription and Translation.
CO 4	Explain about the structure and functions of DNA and RNAs.
CO 5	Knowledgeable on the process of evolution and the forces operating in it.

PRACTICAL

- Ability to prepare slides and staining techniques. Become skilful to isolate and mount giant
- chromosomes through practical exposure.
- Explain and identify various stages of cell division.

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PAPER IVA

**Animal Physiology, Cellular
Metabolism and Embryology**

SEMESTER - IV

Course Outcomes:

CO 1	Understand the functions of important animal physiological systems including digestion, cardio-respiratory and renal systems.
CO 2	Understand the muscular system and the neuro-endocrine regulation of animal growth, development and metabolism with a special knowledge of hormonal control of human reproduction.
CO 3	Describe the structure, classification and chemistry of biomolecules and enzymes responsible for sustenance of life in living organisms
CO 4	Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various biomolecules
CO 5	Describe the key events in early embryonic development starting from the formation of gametes up to gastrulation and formation of primary germ layers.

PRACTICAL

- Estimate oxygen, alkalinity and salinity present in water through titration methods
- Identify the pH value of water samples collected from different parts of Vijayawada
- Recognize carbohydrates, proteins, fats, and nitrogenous wastes (Ammonia, Urea and Uric acid)
- Understand the developmental stages of various animals through videos, observations of slide, models and charts.

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**(Affiliated to Adikavi Nannaya
University)II B.sc (4th Semester)
Paper- IVB- Immunology and Animal
Biotechnology**

Course Outcomes:

CO 1	To get knowledge of the organs of Immune system, types of immunity, cells and organs of immunity.
CO 2	To describe immunological response as to how it is triggered (antigens) and regulated (antibodies)
CO 3	Understand the applications of Biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering
CO 4	Get familiar with the tools and techniques of animal biotechnology
CO 5	Identification of blood groups and Haemoglobin Percentage

PRACTICAL

- Ability to calculate TC, DC, RBC, WBC with the help of Haemocytometer, differential cell counters and cell sorters.
- Prepare culture media, agarose gel and inoculation of microbes into the culture media
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PAPER VI B: Live stock management -1

Course Outcomes:

CO 1	Select the suitable breeds of livestock for rearing
CO 2	Relate the anatomy of udder with letdown of milk
CO 3	Identify and manipulate the reproductive behavior of cattle
CO 4	Inspect the economics of dairy farming
CO 5	Apprise the various breeding techniques employed in live stock

PRACTICAL

- On successful completion of this practical course, student shall be able to Examine the points of dairy cow.
- Understand the behavioral changes of cow during the reproductive period.
- Differentiate the merits and demerits of cross breeds in cattle.

SIR C R REDDY COLLEGE FOR WOMEN, ELURU
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PAPER VIIB: Live stock management - 2

Course Outcomes:

CO 1	Identify and suggest the suitable housing system for the dairy farming.
CO 2	Understand management practices for the dairy farming.
CO 3	Learn the process of milk pasteurization
CO 4	Prepare cream from milk
CO 5	Learn the process to maintain live stock

PRACTICAL

- On successful completion of this practical course, student shall be able to Design a model dairy farm layout.
- Understand procedure of milk pasteurization at milk processing centers.
- Identify various important management practices in dairy farming.