

BACHELORS WITH ZOOLOGY AS MAJOR (CT – I)

6th SEMESTER

ZOL622J1 ZOOLOGY _ ANIMAL BEHAVIOUR

CREDITS: THEORY: 03; PRACTICAL: 01

COURSE OBJECTIVE:

To develop a deeper understanding of how animals interact with each other and their environment

LEARNING OUTCOME:

The learner will understand the behaviour of different animal groups, their communication pattern and their social structure. The knowledge will be utilized to promote animal conservation and improve their well-being.

THEORY (03 CREDITS)

UNIT I: BEHAVIOUR DEVELOPMENT

- 1.1 Home range, territoriality, dispersal & habitat selection
- 1.2 Food selection and optimal foraging theory
- 1.3 Genetic and environmental components in the development of behaviour
- 1.4 Neural basis of behaviour: stimulus filtering & biological rhythms

UNIT II: SOCIAL AND PARENTAL BEHAVIOUR

- 2.1 Social organization in insects
- 2.2 Social behaviour in primates
- 2.3 Parental care in vertebrates
- 2.4 Communication in animals: auditory, visual, chemical and tactile.

UNIT III: REPRODUCTIVE AND LEARNING BEHAVIOUR

- 3.1 Courtship and mating systems
- 3.2 Learning behaviour in vertebrates
- 3.3 Migration in fishes
- 3.4 Migration in birds

PRACTICALS/ FIELD SURVEYS: (1 CREDIT)

1. Study of various types of bird nests
2. Investigation of hydrotaxis, chemotaxis and phototaxis in earthworm
3. Conducting the field surveys for studying various types of behaviours in animals
4. Study of social organisation in bees/ants
5. Collection and identification of various social insects
6. Study of parental care & social behaviour through audio-visual aids

SUGGESTED BOOKS / READING MATERIAL

1. An introduction to Animal Behaviour by Manning and Dawkins, Cambridge University Press
2. Animal Behaviour- an evolutionary Approach by John Alcock Sinauer Associates, Inc Publishers Sunderland, Massachusetts
3. Animal Behaviour by Anbery
4. Animal Behaviour by Reena Mathur
5. Animal Behaviour by M.P. Arora Himalaya Publishing House
6. Essential Animal Behavior by Graham Scott
7. Mechanism of Animal Behaviour by Peter Marker and J. Hamilton, Jhon Wiley & Sons USA
8. Principles and Animal Development by S.C. Goel