

ST. JOSEPH'S COLLEGE FOR WOMEN (A), VISAKHAPATNAM

Four Year – B.Sc. (Hons), Semester – VIII

ZOOLOGY

ANIMAL BEHAVIOUR AND CHRONOBIOLOGY

Practical

Time:2hrs/week

Code: Z 8552(2)

Max. Marks-50

I. Learning objectives: Enable the students to

- Develop skills in observing the behavioural responses.
- Understand the geotaxis behavioural patterns
- Apply skill construction of actogram.
- **Learning outcomes:**
- Describe the various patterns of behaviour
- Demonstrate competence in reporting and oral presentation of the practical experiments.
- Explain analysis of behaviour (ethogram).

II. Syllabus

To study nests and nesting habits of the birds and social insects.

1. To study the behavioral responses of wood lice to dry and humid conditions.
2. To study geotaxis behaviour in earthworm.
3. To study the phototaxis behaviour in insect larvae.
4. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioral activities of animals and prepare a short report.
5. Study and actogram construction of locomotor activity of suitable animal models.
6. Study of circadian functions in humans (daily eating, sleep and temperature patterns). Jetlag (graphical pattern).

III. Lab resources:

Biological Rhythms: Vinod Kumar (2002) Narosa Publishing House, Delhi/ SpringerVerlag, Germany.

- <https://ccb.ucsd.edu/the-bioclock-studio/education-resources/basics/part2.html>
<https://ccb.ucsd.edu/the-bioclock-studio/education-resources/basics/index.html>