

**DEPARTMENT OF ZOOLOGY
SIKSHA BHAVANA (INSTITUTE OF SCIENCE)
VISVA-BHARATI (A CENTRAL UNIVERSITY)
SANTINIKETAN – 731235
WEST BENGAL, INDIA**

Summer Internship in ZOOLOGY (2026-2027)

Programme details & Step-by-step procedure for enrolment:

- ✓ Details of the Internship Topics are given below (page-2 onwards).
- ✓ Fill in the Google Form and submit **within 25th May, 2026.**

<https://forms.gle/LB9shBokoAzfGMWcA>

- ✓ Shortlisted candidates will be notified with payment link by email to make payment **within 5th June, 2026.**

**For any queries about the Internship Programme, please contact
Internship Supervisor:**

Dr. Sutapa Mukherjee
Associate Professor
Endocrinology & Metabolism Laboratory
Department of Zoology
Siksha Bhavana (Institute of Science) Visva-Bharati (A Central
University) Santiniketan – 731 235, West Bengal, India
Email: sutapa.mukherjee@visva-bharati.ac.in

INTERNSHIP PROGRAMME (IP_ZOOLOGY)
DEPARTMENT OF ZOOLOGY
SIKSHA BHAVANA (INSTITUTE OF SCIENCE)
VISVA-BHARATI

1. Title of the UG/PG Internship programme:
Mastering Protein Analyses: SDS-PAGE & Western Blotting Techniques

2. Nature of Internship programme: Research-based for developing research aptitude

3. Description of the Internship programme:

The programme will provide first-hand experience to the students in learning the technique of sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) and Western blotting. While preparing samples, the interns will acquire skills to operate several commonly used research laboratory equipment viz. balance, pH meters, centrifuges, spectrophotometer etc. and learn to weigh chemicals, prepare reagents and buffers, and also process samples. The programme aims to help interns gain theoretical knowledge as well as practical know-how of electrophoretic and blotting techniques for protein analyses.

The programme has been designed to fulfil the internship criteria as prescribed in the Four-Year Undergraduate Programme following NEP 2020, and is open for both UG/PG students.

Total Duration: 18 days; 120 hrs

The programme will be held in two parts during 13th June, 2026 to 02 July, 2026

- 11 days virtual learning (theoretical knowledge, principles and applications in detail) (64 hrs)
 - SDS-Polyacrylamide gel electrophoresis (6 days)
 - Western Blotting (5 days)

(The interns can attend this part from their respective places through online mode).

- 07 days Offline hands-on training (56 hrs)
 - SDS-Polyacrylamide gel electrophoresis (4 days)
 - Western blotting (3 days)

(The interns have to be physically present in the Department of Zoology, Visva-Bharati, Santiniketan for this part of the programme).

4. Objective (Bulleted form):

- The internship programme will provide hands-on training for learning basic research laboratory skills in Protein Electrophoresis and Western Blotting.
- The students will also get an idea how to prepare reagents, samples, and about work-bench cleaning and maintaining laboratory record keeping.
- By the end of the programme, the interns will have gained hands-on experience of preparing reagents, sampling, estimations, and usage of common laboratory equipment.
- Upon successful completion of the programme, the interns will have acquired basic skills and know-how about these important molecular biology techniques. This programme will help to develop research aptitude in the interns and inculcate passion for pursuing career in research.

5. Duration: **18 Days /120 hours**

6. Mode of Internship programme (Offline/Virtual/Blended): **Blended mode**

7. Minimum eligibility criteria: Studying Four-Year Undergraduate Program FYUP (NEP2020) /UG/PG preferably in Life Sciences and allied subjects/related disciplines
8. Date of start and closure of Internship programme: From 13/06/2026 – 02/07/2026

From 13/06/2026 to 19/06/2026 --- Laboratory Practice sessions Offline Hands-on training

From 22/06/2026 to 02/07/2026 --- Theory, Analyses and Applications in detail through virtual mode
9. Total intake of Interns/slot: Maximum 20 interns
10. Selection process (if any): Short listing of internship applications will be done on the basis of interest / academic performance in semesters.
11. Place of internship:
Department of Zoology
Siksha Bhavana (Institute of Science)
Visva-Bharati (A Central University)
Santiniketan – 731 235, West Bengal, India
12. Logistics (minimum) to be provided, if any: -
13. Fee to be paid: As per University Guidelines [Rupees 1000/- for students of Visva-Bharati;
Rupees 2000/- for other students]
(This amount is being charged from the interns considering the cost of reagents, consumable items, chemicals required for executing the hands-on training programme)
14. Contact details of Coordinators:
A. Dr. Rakesh Kundu; Associate Professor; Department of Zoology; Visva-Bharati, Santiniketan;
Email: rakesh.kundu@visva-bharati.ac.in
B. Dr. Debarshi Sarkar; Assistant Professor; Department of Zoology; Visva-Bharati, Santiniketan;
Email: debarshi.sarkar@visva-bharati.ac.in

Contact details of Internship Supervisor:

Dr. Sutapa Mukherjee
Associate Professor
Department of Zoology
Siksha Bhavana (Institute of Science)
Visva-Bharati (A Central University)
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