

# **SUMMARY REPORT OF INTERNSHIP**

*Organized by*

**Department of Zoology,  
A. B. N. Seal College,  
Cooch Behar,  
West Bengal 736 101**

**[18/04/2023 to 17/05/2023]**

## Certificate from the Supervisor:-



Fax & Tel: 03582-226112  
Website: <http://abnscollge.org>

Government of West Bengal  
Post Graduate Department of Zoology  
A. B. N. Seal College, Cooch Behar-736101

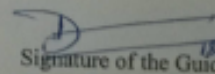
Memo No-

Date-18/05/2023

### CERTIFICATE

On the basis of declaration submitted by Shanka Das ( Roll No-M054) and Subhrajyoti Kishore Sen ( Roll No-014) , students of B. Sc Zoology Honours VI Semester, I hereby certify that the Internship work titled as '**B. Sc Zoology Honours IV Semester Teaching- an Experiential Research Study**', which is submitted to Department of Zoology, ABNSC of the requirements of Department of Zoology, ABNSC are an original contribution with existing knowledge and faithful record of work carried out by her under my guidance and supervision.

To the best of my knowledge this work has not been submitted in part or full for any Degree or Diploma to other University or elsewhere.

  
Signature of the Guide

With Seal

Date-18/05/2023

Dr. Debejyoti Dutta  
M. Phil, Ph. D.  
Associate Professor under W.B.E.S.  
PG Department of Zoology  
ABN Seal College, Cooch Behar  
Government of West Bengal

## Internship Notice:-



Government of West Bengal  
Post Graduate Department of Zoology  
Acharya Brojendra Nath Seal College  
Cooch Behar, PIN-736 101, West Bengal, India

Notice No.: X


Date: 11. 04. 2023

### NOTICE

This is notified to all concerned that an internship programme will be held for UG 6<sup>th</sup> Semester Zoology (Honours) students of Acharya Brojendra Nath Seal College, Cooch Behar from 18. 04. 2023 to 17. 05. 2023. Dr. Debojyoti Dutta, Associate Professor of Zoology will guide the following UG 6<sup>th</sup> Semester Zoology (Honours) students of this Department who will be actively participating in the said programme.

Name of the Student	College Roll No.
Shubhrajyoti Kishor Sen	M-014
Shankha Das	M-054

The aforesaid students are asked to strictly abide by the instructions exerted by Dr. Dutta in due schedules.

  
Head  
Post Graduate Department of Zoology  
A.B.N. Seal College  
Cooch Behar  
11.04.2023

#### Copies forwarded for further information and necessary action to:

1. The Principal, Acharya Brojendra Nath Seal College, Cooch Behar
- ✓ 2. Dr. Debojyoti Dutta, Associate Professor of Zoology, Acharya Brojendra Nath Seal College, Cooch Behar
3. The Departmental Notice Book
4. The Departmental Notice Board

**Back ground Information:-**

The internship is an integral platform for anyone to gain experience in an actual workplace. Internship is a good opportunity for students to learn, to gain experience and also to make preparation. Men learn through experience, and a real life is full of different kinds of experiences. We will encounter many difficulties and obstacles, and with experiences we are expected to be able to encourage and complete the cleansing process. Experience in my eyes is a very valuable thing in life because we need to be brave in taking risks. It is also not something that we simply create, but we need to undergo through it. By doing my internship in an actual workplace, it helps me to know and discover myself from different angle. It also helps us to control and develop my attitude and behavior in dealing with different kinds of people and situation.

Apart from that, I really want to gain professional knowledge and skills by taking the internship course. At the same time, I also want to improve my communication skills and ability to interact with people. I realize that by being part of working society, I will need to meet different people around the office and I will have to communicate with them to settle their needs. Undergoing internship also helps to make me learn on how to work in a systematic organization. It helps me to learn how to be independent in accomplishing my tasks. Besides, all knowledge that I have learnt through my learning in classroom can be implemented through internship. Not only that, by doing internship, I am able to undergo challenges which is normal in working life setting.

Some key findings in internship Programme:

- Internship in a school need punctuality and disciplined behavioral approach.
- Leads to result that is that is as valuable as one's studies.
- Employees in an Educational institute values time and knowledge.
- Teachers give 'real-time' efforts to the overall goals of Education.
- The process of teaching has to be Interactive, though some teachers are still finding it difficult.
- Teaching is a responsible job.
- Technology has helped the whole process of knowledge building and we are all dependent on it, less or more, but we are.

**Selection of the Students:-**

All the students of the final semester ( B. Sc Zoology Core, VI Semester Students) were screened via past academic record as well as interview by the departments and finally the following students are selected for the internship Programme.

<b>Name of the students</b>	<b>College Roll No</b>	<b>Class where internship done</b>	<b>Topic Selected for Teaching</b>
Shubhrajyoti Kishore Sen	M-014	B. Sc Sem-II (Core Zoology)	CC-II; Unit-6 Larval Form of Echinodermata & Affinities with Chordates
Shankha Das	M-054	B. Sc Sem-II (Core Zoology)	CC-IV; Unit-4, Chemiosmotic Theory

**Duration of Internship-** 18/04/2023 to 17/05/2023

**Actual hours devoted for the internship Work-**10 Hours

### **Traditional versus Modern Teaching Methods:-**

#### **Traditional Teaching method-**

In most of the parts of our country traditional teaching methods are used. Traditional methods usually involve chalks, black-board and dusters; teachers illustrate concepts to students using these. While important topics are written on black-board by teachers using chalks, students there make notes out of it. The major objective of traditional teaching method remains for students to pass the examination; however there are its own merits and demerits.

- Traditional teaching method is majorly used in rural areas
- It is cheaper
- Some subjects like mathematics and chemistry are best taught through this method as these subjects are to be taught step-by-step, while explaining.
- We can observe more discipline in the class
- No special technical knowledge is required and the focus can be remained on the subject
- There is more interaction between teacher and student in a traditional class
- Doesn't put strain on the eyes of the students.

#### **Modern Teaching Method-**

From the last decade, most of the education instituted have switched to modern teaching methods, which basically includes ‘Smart-Class-rooms’. The use of high-tech equipment has shown a rapid increase. These High-tech equipment help improving class room-teaching. The use of computer or laptop with Wi-Fi connection, use of LCD projector or interactive white-board in the class-room helps make classroom teaching better.

- Modern teaching method helps maintaining the interest of the students through animation, videos and graphics.
- Use of digital games in the classroom is fun learning.
- Special website or blogs can be done for teaching
- Visual media teaching helps students understand better and memorize concepts for a longer time.
- If one masters modern teaching methods, teaching will be very efficient as one doesn’t need to write everything on the black board.
- The use of microphones can be done for delivering the lecture in the class room.

## **Objectives**

### **PRIMARY OBJECTIVES**

- The major objective of my whole internship was to act responsible and not to waste time of my students even a bit.
- The second major objective was to make sure the students thoroughly understand what has been taught to them. For the same, I made sure I clear and sort all the concepts.
- Another major objective of my internship was to be helpful to them as much as I can, for their upcoming examinations.
- To pledged to hold a good command on the subject, for the benefit of the students and for the sake of my learning.
- To improve English- abilities of the students as well as develop their communication skills.
- Establishing a flexible and coherent framework which can most readily and quickly meet the needs of students.
- Making sure of self’s cognitive growth and developing self-confidence.
- Making sure of following the organizational instructions.

### **SECONDARY OBJECTIVES**

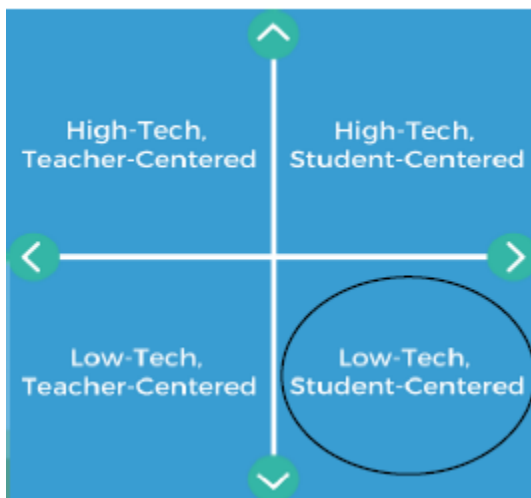
- To make and maintain a flexible teacher-student relationship.
- To make sure to make an impact.
- To learn while teaching.
- To make it a preparatory class; and not an end to itself.
- To acquire understanding of child psychology.
- To comfort students enough for them to ask questions and clear doubts.
- To make the whole process of learning ‘two-way’ and maintain the learning loop.
- To make learning in class equated to learning of life.
- To acquire cognitive output from individuals; can be unmeasurable.

## Methodology:-

The term 'teaching methodology' refers to the pedagogy, management strategies and general principle used for classroom instruction. Teaching methodology is a matter of choice and depends on what fits you. It depends on one's educational philosophy, class demographics and subject areas. I will try to explain my teaching methodologies in terms of

- Teaching Theories (Diagram 1.1)
- Mix of traditional and Modern teaching method
- Flexible approach
- Contemporary style
- Programmed Instruction method

From the following diagram (diagram1.1) based categories given below,



**Diagram 1.1**

From Instructor-centered, learner-centered, content focused and participatory method, I choose 'low-tech, Student-Centred Intractive approach' as my major teaching method, because I wanted to be a facilitator to my students, more than an authority. I wanted my students to take part in the class-learning as to ensure if they are even learning. This method also helped me to measure their learning. The student centric approach works in a 'give-&- take', unlike the teacher-centric approach, where students are filled like empty vessels. This was, indeed, an outcome of my firm believe in Co-ordinative learning.

Teaching methodology which was practiced is very much flexible and personalized. Flexible approach is the 'new-age-method'. Personalized way encourages lifelong learning with 'real-life practices'. There should be flexibility in teaching because students can be unpredictable by

nature and everything is always in a perpetual state of change. Rigidity in turn can restrict students from interacting with the teacher. This flexible approach helped me a lot to maintain control over the class of inquisitive young minds, who cannot be tamed. Flexibility in teaching is majorly important for the need to respond to different learner abilities, needs and interests and after all a learning environment is in constant motion, filled with disruption and discussion and new ideas.

The contemporary approach which was based was based on meaning and example-based strategies. The use of contextual clues and examples has been my major contemporary approach. It was to give the best understating to the students of what is being taught to them, so as to develop and maintain interest. Example based strategies helps students relate, understand and remember, what has been learned, for a longer time. Clear understanding of the subject would also encourage the students to use English in their daily life.

Selection of the students    ⇔ Programme chalk out    ⇔ Topic selection    ⇔ Library Work    ⇔ Incorporation modern Pedagogy tools    ⇔ Practical Implementation of the Tools    ⇔ Preparation of the Hand out of the Teaching Subjects    ⇔ Small group Tryout    ⇔ Large Group Try out.

Course Management System (CMS) software is utilized. CMS allow instructors to design and deliver their courses within a flexible framework that includes a number of different tools to enable learning and communication to occur. Popular for-profit CMS which was utilized includes:

- Blackboard ([www.blackboard.com](http://www.blackboard.com))
- WebCT ([www.webct.com](http://www.webct.com))
- eCollege ([www.ecollege.com](http://www.ecollege.com)) Low-cost alternative and open source CMS include:
- ETUDES-NG (<http://etudesproject.org>)
- Moodle (<http://moodle.org>)
- Angel (<http://angelllearning.com>)

### **Benefits of Online Teaching and Learning**



- **Enhanced Learning:** Research shows increased depth of understanding and retention of course content; more meaningful discussions; emphasis on writing skills, technology skills, and life skills like time management, independence, and self-discipline.
- **Interaction:** Increased student-to-teacher and student-to-student interaction and discussion; a more student-centered learning environment; less passive listening and more active learning; a greater sense of connectedness, synergy.
- **Innovative Teaching:** Student-centered approaches; increased variety and creativity of learning activities; address different learning styles; changes and improvements can translate to on-ground courses as well
- **Maximize Physical Resources:** Lessen demand on limited campus infrastructure; decrease congestion on campus and parking lots.
- **Outreach:** Give students options; reach new student markets; appeal to current students increase enrollments.

### **My experience**

This journey was a big opportunity for me as I could learn many vital things needed in a professional life. First and foremost, thing I learnt is being professional which includes many other aspects. I learnt how to go with the time management and work accordingly.

This journey was a lesson for me to deal with the children and maintain the teacher-student relationship. I also learnt professional behavior in case of working with the colleagues and other stuffs of the college. This taught me coordination of working with study. This was basically a practical experience of what I studied from all the courses I have done in my university.

So this helped me to know how to actually work being a teacher. Overall, it was a great learning experience for me.

### **KEY OBSERVATIONS OF THE SUBMITTED STUDENT'S REPORT**

- The Internship-report has been made on both experiential and research bases as to sync the experience and observations with the prevailing norms, methods and ethics, for the purpose of explanation.

- Research data has been created and added in the report that supplements the work done, for better understanding of the readers.
- The report has both experiential work (instructors) and behavioral observation (students') mentioned in the report, which absolutely compliments each-other.

### **Other observations:-**

- The love from students and their personal and academic growth keeps a teacher going and motivated.
- Dealing with human mind and psychology is fun, especially when they are kids or teenagers.
- As an instructor it is a challenge to make students follow you. Also an achievement, when they do.

### **Conclusion**

Ethics makes us all and I have learned that only when students feel comfortable in the class, they can obtain learning English efficiently, as they are more integrated in the class and comfortable in speaking English. The attitude of the English teacher, in addition, is absolutely significant in this case, as the teacher is the key of creating classroom atmosphere. Positive classroom atmosphere will any-day contribute to more productive learning which is essential for English-teaching. For instance, enthusiasm and classroom humor of the teacher may motivate student to learn and talk in English in the class, which eventually can benefit them to overcome obstacles and boost their confidence. I also think that students take their own time and one should be patient with students, because learning is a process in itself which should not be confused with competition. For example, I would ask questions in my class, first, to students who are willing to answer and then to those left. These way students could take their own time, listen to other students, get prepared and then answer. To my observation, this technique helped student gain confidence.

My overall experience was based on 'give-and-take' strategy. It helped me understand what I'll be signing-up for, while being helpful to others (student and institute). It also helped me contemplate my career choices, while learning more about humans of different age-group. This experience made learn of responsibilities and how students depend on their teachers.

It, indeed, was also a heart-warming experience. Of course, because we have to deal with students and their innocence. The biggest achievement that stays with a teacher, after being appreciated for their work is, how students remember them and stay in contact even after the job is done.



← Photo 1. Chalk and Talk methodology



Photo 2. Discussion on improvisation in Teaching



Photo 3. Interaction with audio Visual Aids

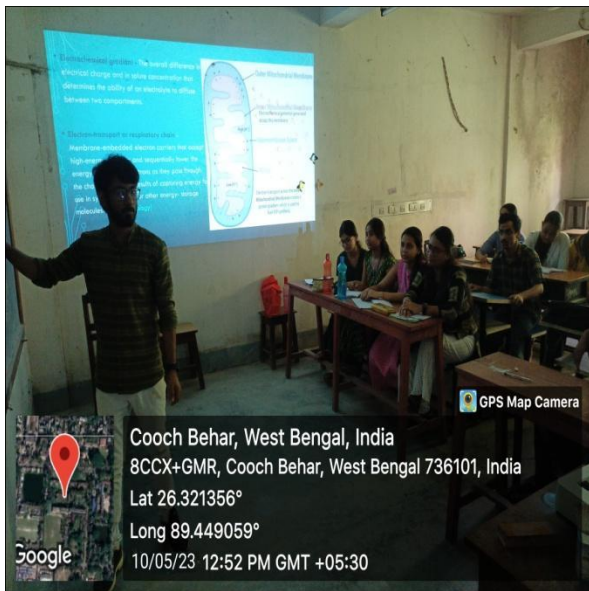


Photo 4. Amalgamation of Traditional and modern teaching technology.



Photo 5. Final teaching in front of the All UG II semester students.

## Reports Submitted by Students:

### DECLARATION BY THE STUDENT

I, Shanka Das, student of B.Sc Zoology Honours (VI Semester) hereby declare that the Internship work entitled ‘**B. Sc Zoology Honours IV Semester Teaching– an experiential research study**’, submitted to Department of Zoology, A B N Seal College, is a record of original work done by me under the guidance of Dr. Debojyoti Dutta, Associate Professor of Department of

Zoology, ABNSC. This Internship Work is submitted in the partial fulfillment of the requirements of Department of Zoology, ABNSC. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

Signature of the Student  
with College Roll No

## **INTERNSHIP REPORT**

I am Shanka Das , 6<sup>th</sup> Semester student of Department of Zoology, A.B.N. Seal College was selected to take classes to the student of Second (2<sup>nd</sup> ) semester students of Zoology Department. I am honoured and excited by this chance from the Institution.

My Internship classes were started from 18<sup>th</sup> April and run up to 17<sup>th</sup> May, 2023 under the Supervision of Dr. Debojyoti Dutta, Associate Professor, Department of Zoology, A B N seal College. I was trained most of the Tuesday starting from 2.30 pm. Dr. Dutta after through discussion certain objective were fixed up and he instructed me to choose a topic and told us to take classes to the student of 2<sup>nd</sup> semester Zoology Core students.

My topic was “**Chemiosmotic Theory**”.

### **Logic Behind the taking Internship:-**

I have decided to take the internship course to grab the golden opportunities to apply theories and knowledge that I have in real working life setting. Through learning in university, I learned about theories but by doing internship, I learned the practicality approach on dealing with a real world. Even though it was not that much, it still has profound results in some aspects of my life. In some ways, through the internship, I also have learned that I am still lacking as an individual and employee. Internship helps me to identify my weaknesses and also my strengths. Immanuel Kant once said, “Experience without theory is blind, but theory without experience is mere intellectual play.” The other reason why I choose to take the internship course is as a preparation for more challenging work environment and situation. Our life in school and university is incomparable with working life. A working life is very challenging as it requires great effort, commitment, and abilities; those are something that I need to be prepared and trained to.

### **About the Teaching Topic:-**

Mitochondria are the power house of the cell. It yields energy in the form of ATP. But the basic question is that what the specialty of Mitochondrion is. In this topic I discuss firstly internal architecture of the mitochondria and mechanism of electron transport chain and bioenergetics involved in it. Proton pump hoe it generated and drama which was decoded by Peter Mitchell who was awarded Noble prizes for the discovery of Chemiosmotic Theory all are discussed in lucid language.

DD Sir help me to develop hands out of the topic in a scientific way which was distributed in the final teaching class. Prior to develop the content it should be noted consultation of Departmental Seminar Library and central library and different databases are also consulted under the supervisor guidance.

I have prepared a PPT on the topic of **Chemiosmotic Theory**. All together five classes are taken in 5 weeks. All are theoretical classes. On the final day feedback was undertaken by the department from the 2<sup>nd</sup> semester students and was analyzed by the supervisor.

### **About Teaching Technology:-**

I kept my approach Low-tech because the internship period was limited, and high-tech approach would consume more time. Also because the students were more comfortable in low tech-approach for my subject. I didn't think that the class needed the use of multimedia at this point of time when their exams are just about to begin. I kept it for the last which eventually didn't happen because of limited time. English, unlike Geography, do not need visuals and graphics for conceptual clarity. All these facts made me choose Low-tech approach as my teaching methodology.

### **My experience:-**

I was totally unknown to the fact that how I feel about teaching and how I will perform as a teacher in actual situation. This gave me the opportunity to understand this profession by having the experience of teaching. I was always engaged with my study all the time without any other work. By doing the internship and study together I learnt how to manage work and study together.

## **DECLARATION BY THE STUDENT**

I, Subharajyoti Kishore Sen, student of B.Sc Zoology Honours (VI Semester) hereby declare that the Intern ship work entitled 'B. Sc Zoology Honours IV Semester Teaching– an experiential research study', submitted to Department of Zoology, A B N Seal College, is a record of original work done by me under the guidance of Dr. Debojyoti Dutta, Associate Professor of Department of Zoology, ABNSC. This Internship Work is submitted in the partial fulfillment of the requirements of Department of Zoology, ABNSC. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.



Signature of the Student  
With College Roll No

## **INTERNSHIP REPORT**

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**About the Teaching Topic:-**

Evolution is a slow but steady process which is nothing but decent with modification. In invertebrate series phylum Echinodermata has achieved highest grade of evolutionary perfection. So logically it has a connection between invertebrates to vertebrate translation series. After thorough discussion with the supervisor and laborious library and database search work learning outcome and lesson design have been formulated. In the topic not only morphological similarities and dissimilarities are not discussed but also through audio visual demonstration mitochondrial DNA derived phylogeny has been illustrated. Moreover, software like WEGNER S , Phylip etc also concisely demonstrated among the students. Upmost care has undertaken to overall cognitive and psychomotor development of the topic.

**About Teaching Methodology:-**

My teaching methodology was a balanced blend of both traditional and modern teaching methods. While the process of learning in my class still took place with the help of a white-board and a marker, unlike traditional teaching method, it wasn't based on just getting the passed in

their examinations, which remains the major objective of traditional teaching method. English has become a leading global language, and as a lingual subject, has to be practiced with interest, more than to be studied. I also took up for a mix of both so as to keep space for classroom interaction, which would include verbal question answers, practicing sentences, doubt clearing sessions, random mid-class oral tests, learning with the help of immediate example, etc. This way my teaching methodology was not wholly traditional, neither was it technologically modern, but perspective wise modern in a traditional environment.

**My experience:-**

- Most importantly I learnt how to teach so many children at a time in a professional manner.
- Leveling of the Playing Field: Students can take more time to think and reflect before communicating; shy students tend to thrive online; anonymity of the online environment.
- Introduction of online and audiovisual aids can accommodate more students; increased student satisfaction = higher retention and fewer repeats.
- Review of Literature mainly deals with the historical context of the experience work done, and changes that occurred over the time
- The Internship report includes a brief about the institution I have worked with, with how it works and who (persons) runs it.