

DEPARTMENT OF ZOOLOGY, KAMRUP COLLEGE

# ZOOLOGICAL BULLETIN



## Message from the Head of the Department

It gives me immense pleasure to present the new edition of the Zoological Bulletin of the Department of Zoology, Kamrup College, Chamata. This publication reflects the enthusiasm, dedication, and achievements of our students and faculty over the past year.

The year has been marked by remarkable student participation in research projects, internships, seminars, and training programs, along with commendable academic and co-curricular accomplishments. Our faculty members continue to inspire through their research, guidance, and commitment to academic excellence.

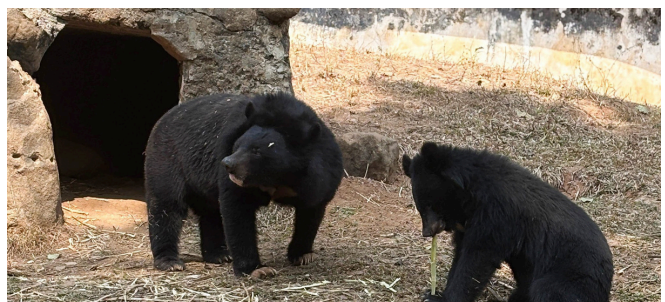
As we move forward, I encourage our students to remain curious, passionate, and persistent in their pursuit of knowledge. Together, let us continue to nurture scientific temper and contribute meaningfully to the study of life and nature.

– Dr. Nipu Kumar Das  
Head, Department of Zoology,  
Kamrup College, Chamata

## Educational Field Visit to Assam State Zoo cum Botanical Park

The Department of Zoology organized an educational field visit to the Assam State Zoo cum Botanical Garden, Guwahati on 27th February 2025. Students of FYUGP 4th-semester Zoology (Major and Minor) programs, accompanied by faculty members Ms. Rimpa Lahkar and Ms. Darathi Deori, explored the zoo as part of their course curriculum.

The visit offered students firsthand exposure to diverse wildlife, including mammals, birds, and reptiles. They gained valuable insights into animal behavior, zoo management, and conservation practices, enriching their understanding of ex-situ conservation efforts.



## Successful completion of Short-Term Research Project

A group of students from the Department of Zoology, successfully completed a short-term research project on “Freshwater Molluscan Diversity of Western Nalbari, Assam,” funded by the R&D Cell. The project was carried out under the guidance of Dr. Nipu Kumar Das, Assistant Professor and Head of the Department. The department congratulates the students on their achievement and wishes them continued success in future scientific pursuits.



## Graduation Milestone: First Batch of B.Sc. Zoology Graduates (2022–25)

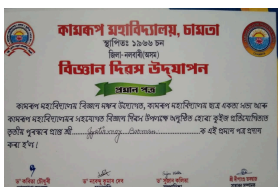
A proud moment for the Department of Zoology, as the first batch of B.Sc. Zoology (Major) students graduated in 2025. Congratulations to all graduates, and special mention to Sanjib Sarmah, Topper of the Batch (2022–25).

Congratulations to all the graduates, your success marks a new chapter for both you and the department!

## Training on Freshwater Pearl Farming at Cotton University

Five students from the Department of Zoology, participated in a Training Program on Freshwater Pearl Farming held on 28–29 November 2024 at Cotton University, organized by its Department of Zoology.

The participants - Sanjib Sarmah, Mriganka Talukdar, Angaraj Barman, Panjol Roy, and Jyotirmoy Barman, gained both theoretical knowledge and hands-on experience on pearl formation, its livelihood potential, and entrepreneurship opportunities.



## Science Day Quiz – 3rd Prize

Jyotirmoy Barman secured the 3rd Prize in the Science Day Quiz Competition organized by the Science Forum of Kamrup College, Chamata.

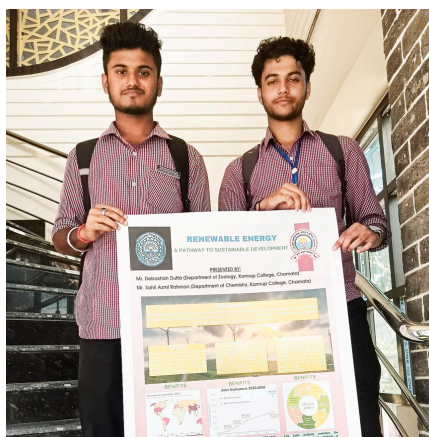


## Student Research Presentation at RAAB

Third-semester Zoology students Angaraj Barman and Jyotirmoy Barman presented their research on freshwater molluscs of the West Nalbari area at the Two-Day National Seminar on **Recent Advances in Applied Biology 2025 (RAAB 2025)**, organized by Tihu College and sponsored by the Department of Biotechnology (DBT), Government of India, on 15–16 September 2025. Their presentation received wide appreciation from the audience.

## Inter-college poster competition

Sahil Azmi Rahman (3rd Semester) and Debashish Dutta (5th Semester), students of the Department of Zoology, Kamrup College, Chamata, participated and presented a poster at the Inter-College Poster Presentation Competition on “Renewable Energy: A Pathway to Sustainable Development” held on 11th November 2024 at Nalbari College. Their active participation reflected their keen interest in scientific communication and research-based learning.



## Student Internships and Research Training 2025



Five students from the Department of Zoology, two from the current 3rd semester and three from the 5th semester successfully completed a research internship at Swahid Smriti Mahavidyalaya (SSM), Belsor, in collaboration with Guwahati Biotech Park under a DBT-sponsored project.

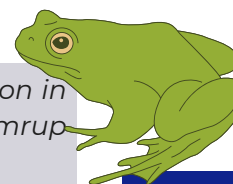
In addition, students from the current 5th-semester batch completed their mandatory four-credit internships at various institutions, including Primary Health Centres (PHCs), JJM, and computer training programs, gaining valuable hands-on experience and professional exposure.



## State Level Quiz Participation

Richa Barman (currently 3<sup>rd</sup> sem) participated in the State Level Round of the RBI90 Quiz 2024, organized by the Reserve Bank of India, and received a Certificate of Participation.

**\*\*Sahil Azmi Rahman**, a student of B.Sc. Zoology (3rd semester), secured the 2nd position in the Essay Writing Competition organized on the occasion of the Foundation Day of Kamrup College, Chamata, held on 25th July 2025



## Faculty Presentation at National Seminar (RAAB 2025)

Dr. Nipu Kumar Das, faculty member of the Department of Zoology, presented his research at the Two-Day National Seminar on **Recent Advances in Applied Biology 2025 (RAAB 2025)**, held at Tihu College on 15–16 September 2025. The seminar was sponsored by the Department of Biotechnology (DBT), Government of India. His presentation highlighted recent developments in applied biological research and reflected the department’s continued engagement in scholarly activities.



## Research Publication

RESEARCH ARTICLE Agricultural Science Digest, Volume Issue : 0

***In silico* Identification of Putative Novel Therapeutic Targets in *Xanthomonas campestris* Pv. *Campestris* to Combat Black Rot Disease in *Brassica oleracea***

Pritam Dey Sarkar<sup>1</sup>, Rimpa Lahkar<sup>2</sup>, Akshay Kumar Haloi<sup>2</sup> 10.18806/ag.D-6176

**ABSTRACT**  
**Background:** *Xanthomonas campestris* pv. *campestris*, the plant pathogenic bacteria causing black rot is a threat in the agriculture of *Brassica oleracea* crops. It is one of the most economically concerning diseases in the agriculture of cabbages. Effective complete solutions to combat the disease are still lacking.  
**Methods:** In the quest to find an effective solution to combat the disease, an *in silico*, subtractive genomic and proteomic approach was adopted. Various bioinformatics tools, online databases and servers were used in this study to find the best therapeutic targets in the proteome of the bacteria.  
**Result:** Seven novel targets were filtered out of six hundred and three essential proteins by multi-step subtractive proteomic approaches. Homology and uniqueness were duly checked to prevent any adverse effects in the host plant while using any inhibitory molecule against these seven targets.  
**Key words:** Black rot, Brassica, Drug target, Subtractive genomics, *Xanthomonas campestris*.

Ms. Rimpa Lahkar, Assistant Professor, Department of Zoology, co-authored a research article titled “*In silico* Identification of Putative Novel Therapeutic Targets in *Xanthomonas campestris* pv. *campestris* to Combat Black Rot Disease in *Brassica oleracea*”, published in the **Agricultural Science Digest** Journal.

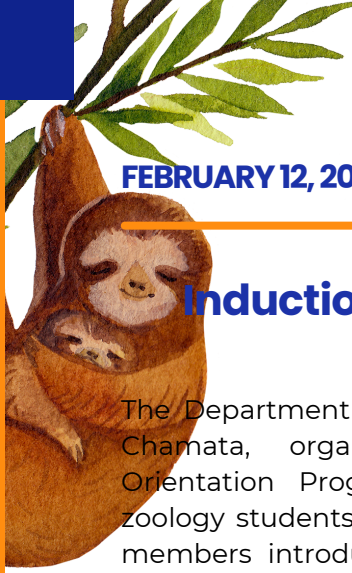
## Faculty Presentation at International Conference

Ms. Darathi Deori, Assistant Professor, Department of Zoology, presented a research paper at the International Conference on “**Decoding Traditional Knowledge: A Multidisciplinary Approach,**” held from 6th to 7th November 2025, organized by the Department of Biotechnology, Bodoland University, Kokrajhar.

## Faculty Presentation at International Seminar

Ms. Rimpa Lahkar, Assistant Professor, Department of Zoology, presented a research paper titled “Economic Thresholds of Insect Pest in Cultivated Vegetables of Nalbari District, Assam” at the International Seminar on “**Interdisciplinary Approaches for a Sustainable World**”, held on 6th–7th January 2025 at CNB College, Bokakhat, in collaboration with Bodoland University, Kokrajhar.





## Induction and Orientation Program 2025

The Department of Zoology, Kamrup College, Chamata, organized an Induction and Orientation Program for the first-semester zoology students on 4th August 2025. Faculty members introduced the newcomers to the course structure and academic guidelines, while senior students shared their experiences and tips for college life.

The department extends its best wishes to the new batch as they begin their journey of learning and discovery.



## Second Annual Zoology Lecture Series 2024

The Department of Zoology, successfully organized the **Second Annual Zoology Lecture Series** on 4th November 2024 in hybrid mode. The keynote speaker, Mr. Arra Abhinay, PhD Candidate from the University of Würzburg, Germany, delivered an insightful talk on the dancing behavior of honeybees, highlighting their complex communication patterns. The event also marked the launch of the first issue of the Zoological Bulletin, unveiled by Dr. Pintu Barman (Physics) and Dr. Saiki Talukdar (Political Science). The program witnessed active participation from students and faculty, making it a memorable academic event.

## Parent-Teacher Interaction Held

The Department of Zoology successfully conducted a Parent-Teacher Interaction session for FYUGP 3rd and 5th Semester Zoology (Major) students between 11th and 16th August 2025. During the session, several parents and guardians visited the department and interacted with the faculty members. The discussion focused on the students' academic progress, attendance, and overall well-being. The initiative aimed to strengthen communication between teachers and parents, ensuring a supportive environment for student development.

Public Profile  
DEPARTMENT OF ZOOLOGY, KAMRUP COLLEGE, CHAMATA PRESENTS

# ANNUAL ZOOLOGY LECTURE SERIES

SECOND EDITION

JOIN THE INTERACTIVE TALK ON  
**DANCING FOR SURVIVAL: HOW HONEYBEES COMMUNICATE AND IMPACT OUR WORLD**

**4TH NOVEMBER 2024**

FROM 11 AM - 12.00 PM  
AT RUSA BUILDING (RB-1)  
KAMRUP COLLEGE, CHAMATA

Mode: Hybrid  
Anyone interested can attend  
**REGISTRATION IS FREE**

Register Here:  
<https://forms.gle/opxfhud5usAbGgQg9>

OUR SPEAKER:  
**ARRA ABHINAY**  
PHD STUDENT, DEPARTMENT OF ANIMAL ECOLOGY AND TROPICAL BIOLOGY, UNIVERSITY OF WÜRZBURG, GERMANY

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*Thank you for reading!*