

ZOO BUZZ

Tracking life from Textbooks to Trails

Newsletter

Department of Zoology

Bijni College, Bijni

“Unveiling the Science of Life”



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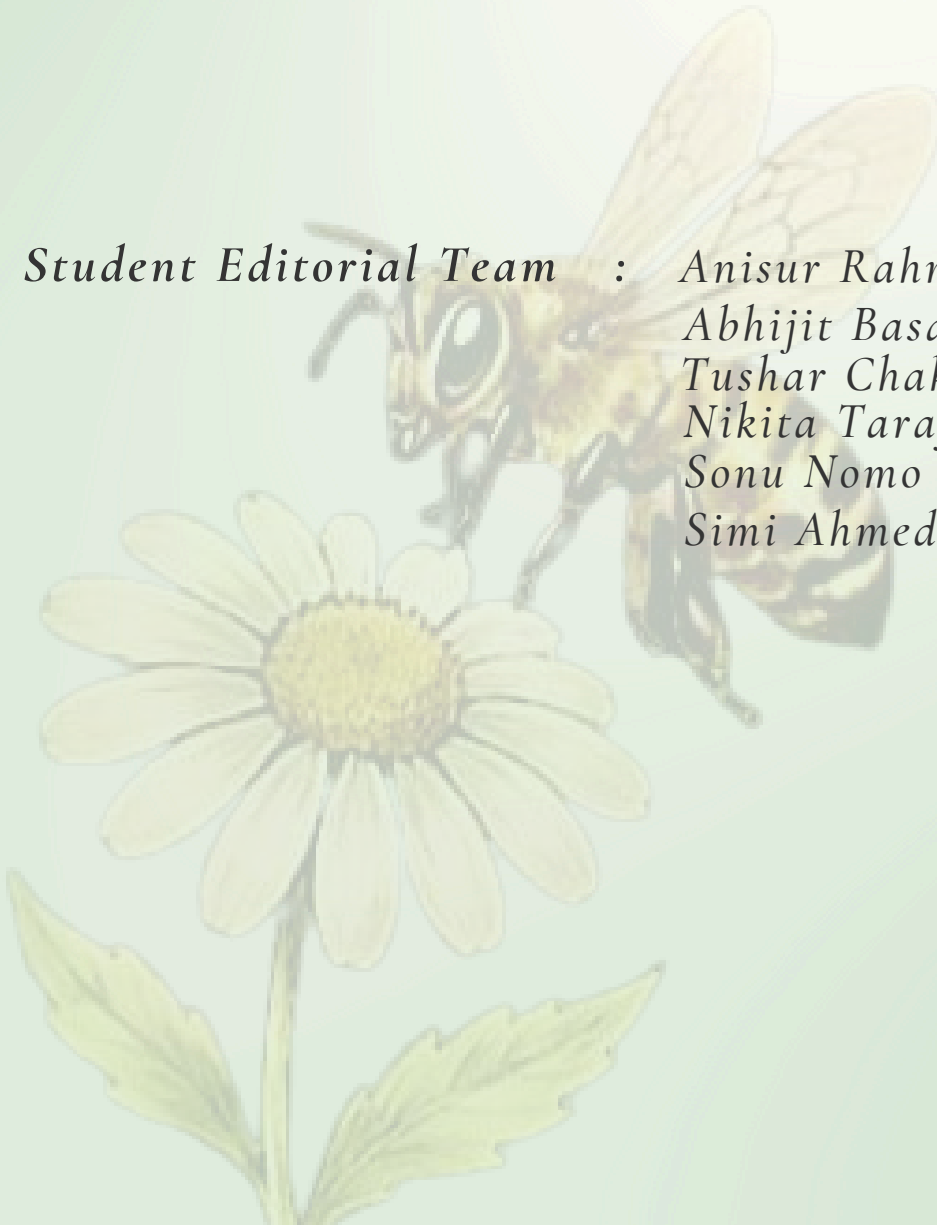
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Legacy and Vision

Founded on 21 July 1994, the Department of Zoology at Bijni College began its academic journey with the introduction of undergraduate classes in the 1994–1995 session, and later strengthened its programme with the introduction of Major courses in August 2015. Functioning under the Science stream of the college, which was established during the Silver Jubilee of Bijni College, the department has gradually developed into a centre for the study of animal life and biological sciences. Supported by dedicated faculty members, the department promotes scientific learning through classroom teaching, laboratory work, seminars, and field-based activities, aiming to develop curiosity, critical thinking, and a deeper understanding of life in nature among students while inspiring them to explore the living world and contribute to the conservation and the study of nature..

Present Faculties

Sl. No.	Name	Qualification	Date of joining	Status
1	Dr. Anindita Chakravarty	M.sc, M.Phil., Ph.D	05/09/1994	HoD & Assistant Professor
2	Mrs. Lipika Dey Dutta	M.sc, M.phil.	01/11/1995	Assistant Professor
3	Dr. Sewali Pathak	M.sc, M.phil. Ph.D, B.ED	28/06/2006	Associate Professor
4	Selim Hussain	Hs (Science)	01/11/1995	Lab Bearer



Message from the Principal

It is my pleasure to witness the release of the first issue of the ZOOBUZZ, the newsletter of the Department of Zoology, for the academic year 2024–25. This publication reflects the enthusiasm and scholarly dedication of the members of the Zoology Department, highlighting the core of education and the various activities carried out throughout the year. This newsletter will reveal the Department's commitment to holistic education and active student participation. I applaud both the faculty and students for this admirable initiative. I extend my best wishes to the editorial team and the Zoology Department. May the “ZOO BUZZ” continue to grow in its aspirations and motivate our students for years ahead.

Dr. Birhash Giri Basumatary
Principal
Bijni College, Bijni

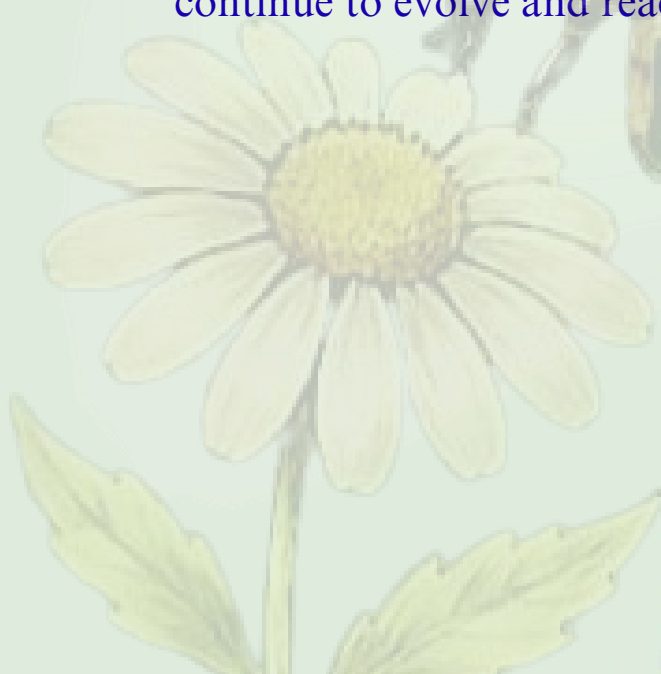


Message from the Head of the Department

I am delighted to celebrate the first edition of ZOO BUZZ! The hard work and passion of the Editorial Board in launching this newsletter for the Department of Zoology is truly commendable. I also want to extend my heartfelt thanks to all the students who contributed their creative and scientific writings to this debut issue.

I hope that ZOO BUZZ continues to thrive as an annual tradition, keeping us, all connected through innovative updates and valuable content from both faculty and students. Each page of this newsletter reflects the vibrant academic spirit and the shared journey of our department. Congratulations to everyone involved in this remarkable achievement. May ZOO BUZZ continue to evolve and reach new horizons!"

Dr. Anindita Chakravarty
Head, Department of Zoology
Bijni College, Bijni



Editorial

Welcome to “ZooBuzz”: Bridging the Micro and the Macro

It is a distinct privilege to introduce this inaugural edition of ZooBuzz, the official newsletter of the Department of Zoology. In an era defined by rapid environmental shifts, the study of animal life has evolved into a critical and vibrant discipline. Our department serves as a testament to the fact that Zoology offers a profound lens through which to understand the complexities of our planet.

Modern Zoology is no longer a solitary pursuit of species monitoring; it is a multifaceted, multidisciplinary endeavour. This first volume of ZooBuzz captures the pulse of our department—highlighting our academic rigor, collaborative growth, and the enduring bond between our faculty and students. We take immense pride in featuring work that seamlessly bridges the gap between theoretical frameworks and field applications.

Beyond the laboratory and the landscape, this edition celebrates the holistic development of our students. From literary pursuits to cultural and artistic expressions, we honour the diverse intellectual passions that define our community. We hope these pages inspire you to look more closely at the world—from the intricate architecture of the smallest invertebrate to the vast ecosystems that sustain us all.

Dr. Anindita Chakravarty
Editor, Zoo Buzz



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Departmental Induction Programme

On 2nd August 2024, the Department of Zoology organised a departmental induction programme for B.Sc. 1st Semester Major students. The programme was conducted to familiarise the newly admitted students with the department, syllabus, laboratory facilities and academic guidelines. Faculty members addressed the students and motivated them to remain sincere and disciplined in their academic journey.



Departmental Field Visit at Kakoijana Reserve Forest:

On 08- 11- 2024, a departmental field visit was conducted under the supervision of Dr. Sewali Pathak, HoD, Department of Zoology, at Kakoijana Reserve Forest. The forest is famous for the Golden Langur.



Plantation Programme under Amrit Briksha Andolan

On 8th August 2024, the Department of Zoology participated in the Amrit Briksha Andolan plantation programme organised by the Swachh Campus Initiative Cell of Bijni College. Saplings were distributed among students and participants to promote environmental awareness and encourage tree plantation.

The programme aimed to motivate students to contribute towards a clean and green campus and to develop a sense of responsibility towards nature. The event was conducted successfully with active participation of faculty members and students.



Department Freshman Meet

On 27th August 2024, the Department of Zoology organised a Departmental Freshman Meet.



One Day Workshop on Research with support from the Research Cell of Bijni College.

On 3rd September 2025, the Department of Zoology organised a one-day Workshop on Research with support from the Research Cell of Bijni College at the Conference Hall for B.Sc. Honours and Major students, with support from the Research Methodology Cell of Bijni College. Dr. Anindita Chakravarty and Dr. Prasanta Das attended the programme as resource person. The session helped students improve their understanding of research and academic writing.



Parent teacher meet

On 3rd September 2024, the Department of Zoology organised a Parent-Teacher Meet under the convenorship of Mr. A. K. Hussain along with other faculty members. Teachers interacted with parents and guardians to discuss students' academic progress, attendance, and overall development, and encouraged them to provide a supportive environment at home. The meeting strengthened cooperation between parents and teachers for the academic improvement and well-being of the students..



Departmental Alumni Meet and Magazine Inauguration.

On 29th September 2024, the Department of Zoology organised a Departmental Alumni Meet along with the inauguration of the departmental magazine "Life". Alumni from different batches shared their experiences and guided the students regarding higher education and career opportunities. The departmental magazine was formally inaugurated by Mr. S. K. pasayat, Vice-Principal, Bijni College, On his speech, he emphasized on strong bondage of Alumni with the Department.



Departmental seminar

On 11th November 2024, the Department of Zoology organised a departmental seminar on “Monitoring Biodiversity Impact due to Global Climate Change,” where students presented papers under the guidance of faculty members. The event was graced by the Principal, Dr. Birhash Giri Basumatary, and the Vice Principal, Mrs. Sabita Roy, along with other faculty members.



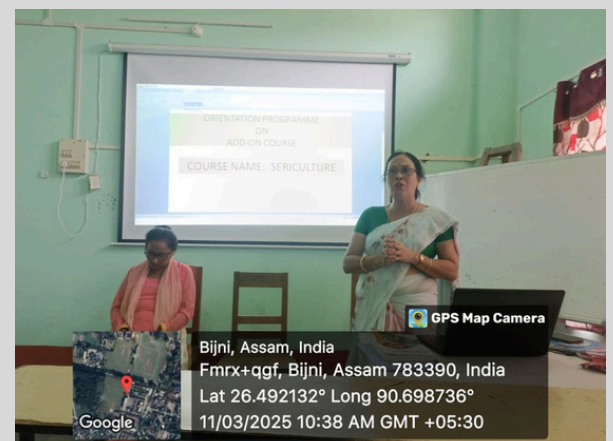
Celebrating of National Science Day 2025

On 28th February 2025, the Department of Zoology celebrated National Science Day along with other science Department at the B. G. Basumatary Auditorium with a National Level Special Talk on “NEP 2020 and the Current Trends in Research.” The programme included lamp lighting, tribute to Sir C. V. Raman, and a welcome address by the Principal, Dr. B. G. Basumatary. The resource person, Dr. Debangshu Narayan Das, highlighted the life and contributions of Sir C. V. Raman, the theme of the year, and the impact of NEP 2020, focusing on skill development, interdisciplinary learning, sustainable bio-resources, and emerging research areas such as ornamental fish farming and edible insects. The Vice Principal and IQAC Coordinator also addressed the gathering, and the programme concluded with a vote of thanks.



Orientation Programme

On 11th March 2025, the Department organised an Orientation Programme in the Departmental Projector Room to inform students about the Add-on Course and Knowledge-based Internship. Dr. Anindita Chakravarty highlighted the programme’s importance, while Mrs. Lipika Dey Dutta explained the course structure, including online/offline classes, compulsory attendance, and a final examination with certification. Dr. Chakravarty also outlined the rules of FYUGP 4th semester students’ internship programme to be conducted in collaboration with the Sub Divisional A.H. & Veterinary Office, Bijni.



Faculty Exchange Programme

On 6th May 2025, the Department of Zoology organised a Faculty Exchange Programme in the departmental classroom/laboratory. Mr. Bishal Ghosh, Assistant Professor of Zoology, Basugaon College, delivered an informative lecture on the topic “Composition of Blood” for B.Sc. 2nd Semester Major students. He explained the major components of blood, their functions and their importance in maintaining physiological balance in the human body. The session was interactive, with students actively participating through questions and discussions. Dr. Dipjyoti Das from Basugaon College also attended the programme and the event proved to be academically enriching for the students.



Faculty Exchange Programme in Abhayapuri College under MoU

A faculty exchange programme on “Career Opportunities for undergraduate students of Zoology” is organized on 03-06-2025 by the Departments of Zoology, Abhayapuri College, in collaboration with the Department of Zoology, Bijni College, as part of the MoU activities. Dr. Anindita Chakravarty, HoD, Zoology, Bijni College, joined the programme as a resource person and enlightened students by various career opportunities, skill development paths, and job opportunities after completion of their UG level studies.



A faculty exchange programme on “Career Opportunities for undergraduate students of Zoology”

A faculty exchange programme on “Integrated Farming- A Career Option for undergraduate students of Zoology” was organized on 11-06-2025 by the Departments of Zoology, Bijni College, in collaboration with the Department of Zoology, Abhayapuri College, as part of the MoU activities. Dr. Hitesh Das, HoD, Zoology, Abhayapuri College, joined the programme as a resource person and enlightened students with his speech on “Integrated Farming and develop a career in this sector with entrepreneurship after completion of UG level studies”.



Farewell Programme for 6th Semester Students

On 9th May 2025, the Department organised a Farewell Programme for the 6th Semester students. The programme began at 1:10 PM presided by Dr. Anindita Chakravarty, Head of the Department. The event started with the felicitation of the outgoing students by junior students, followed by speeches from both students and faculty members. A cultural segment was also presented where Ms. Uma Arjya, a 4th Semester student, performed a beautiful song. Mrs. Sabita Roy, Vice Principal of Bijni College, was present as a guest. The programme created a warm and emotional atmosphere and concluded with a vote of thanks delivered by Mr. Suraj Paul, a 4th Semester student.



Students Outreach Programme

Students from the Department joined Science Exhibition in 57th Annual conference ABSU at Bodofa Fwthar, Dotma



International Day For Biological Diversity

On 22nd May 2025, the Eco Club of Bijni College, in collaboration with Zoology Department of Zoology, organised a programme to celebrate the International Day for Biological Diversity. Mr. Bishal Ghosh, Assistant Professor of Zoology, Basugaon College, attended as the resource person and spoke about the importance of biodiversity conservation and the sustainable use of biological resources. The programme included interactive sessions and discussions on current threats to biodiversity and the role of students in protecting ecosystems, and it successfully motivated students to contribute towards biodiversity conservation.



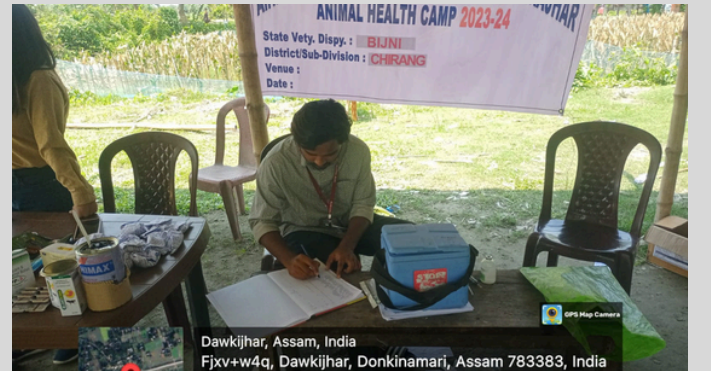
Add on course

An add-on course on "Sericulture" was successfully conducted by the Department of Zoology, Bijni College, under the supervision of Mrs. Lipika Dey Dutta, Assistant Professor, as Course Coordinator, with a structured syllabus. Course duration was from 11th March, 2025 to 5th May 2025, including a field visit to a local sericulture farm.



Internship Details

The Internship Programme on the project “LIVESTOCK MANAGEMENT” was successfully conducted by the Department of Zoology, Bijni College in collaboration with the District A.H. & Veterinary Office, District. Chirang, BTR, Assam (22- 04- 2025 to 06- 05- 2025).



Internship Details

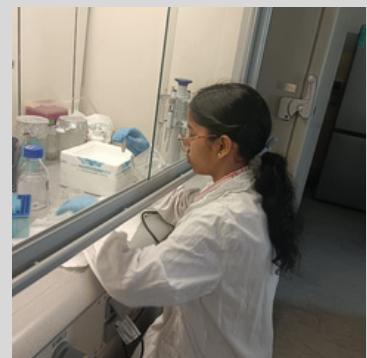
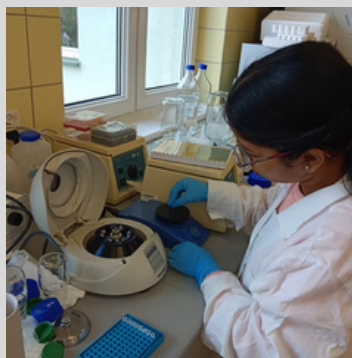
The Department of Zoology proudly recognizes the outstanding achievements of its students. Their successful participation in international internships under the Chief Minister's GREEN FELLOWSHIP Programme, along with summer internship at The Assam Kaziranga University, highlights their academic excellence and exposure. Their notable performances in various competitions further reflect their creativity, dedication, and enthusiasm. These accomplishments bring pride to the department and inspire others to strive for greater success.

Alongbar Basumatary from the 6th semester Major course completed his Internship in Malaysia at the Biological Science Department, University of Malaya (26-02-2025 to 24-02-2025). The title of his project work was "Analysis of co-composted Biochar and Activated Carbon in Soil Fertility Enhancement".



Jenifa Jasmin of B. Sc. 6th semester went to the University of Warmia and Mazuri in Olsztyn, Poland (11-04-2025 to 16-05- 2025). During her internship period, she worked on the project titled:

1. Assessment of changes in biocenoses in seasonal water reservoirs under the influence of climate warming.
2. Effect of PET microplastics on PPARs expression in porcine pancreas.
3. Biochemical and molecular analysis of biological material from ticks.



Internship Details

Ms. Nikita Tarafdar of B. Sc. 4th Semester completed her internship at the Department of Genetics and Microbiology, University of Malaya from 14-04- 2025 to 02- 05- 2020 2025 under the guidance of Prof. Dr. Subha Bhassu, Institute of Biological Sciences, Faculty of Science, University of Malaya. During her internship period, she worked on the project titled:

- 1.Per- and Fluoroalkyl substances (PFAS) globally and in Assam: Sources, effects, and preliminary monitoring.
- 2.Colony PCR method
- 3.Plasmid extraction and culture expansion.
- 4.E-DNA extraction.



02 Nos. of student completed Summer Internship in Assam Kaziranga University, Jorhat



Students' Achievements

Joshna Narzary from the Department of Zoology cleared the IIT-JAM Examination and got admitted in **INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, LUCKNOW** (session:2024-25)



04 Number of students got admitted to Post-Graduate courses in the departments of Zoology and Biotechnology under Bodoland University



Manmita Sarkar



Mukesh Das



Nikita Basumatary



Anjalu Basumatary

Alumni Achievements

Two pass-out students have recently been appointed as Assistant Teachers in Science, bringing pride and inspiration to their institutions. Kritilekha Shome has joined Bijni Bidyapith Higher Secondary School, while Bandita Barman has been appointed at Runikhata High School. Their achievement reflects dedication, hard work, and a strong academic foundation. These appointments not only mark an important milestone in their professional careers but also serve as motivation for current students to strive for excellence. Their contribution to the field of education will surely help in shaping young minds and strengthening the quality of science education in their respective schools..



Kritilekha Shome



Bandita Barman

Creative Insights

Honeybees- The Unsung Heroes of Nature

#Dr. Anindita Chakravarty
HoD, Zoology Department



Honeybees are nature's ultimate multitaskers. As "keystone species," they perform a role so vital that their absence would trigger an environmental collapse. From the crops on our tables to the wild meadows that clean our air, bees are the silent partners in almost every natural process. In this article, we explore how these tiny heroes stabilize our environment and why it is more urgent than ever to protect them.

Though they are small enough to rest on a fingertip, honeybees carry the weight of entire ecosystems on their wings. These remarkable insects do far more than honey-making; they are the invisible glue holding our natural world together. Through the simple, rhythmic act of pollination, they act as nature's most effective conservationists, ensuring that plants can reproduce, crops can grow, and genetic diversity can flourish.

However, the "balance of nature" is currently tilting. Driven by human activity and habitat loss, bee populations are in a vulnerable state. Their decline is a warning light for the environment at large; when a keystone species struggles, the entire ecosystem feels the tremor. Imagine a world without them: a silent collapse where seed production stops, food chains break, and biodiversity fades away. Unfortunately, this isn't just a distant "what-if." Between a warming climate and the loss of their natural homes, honeybees are facing a quiet crisis. Our goal today is to recognize their worth—not just as pollinators, but as the guardians of our food security and nutrient cycles. By recognizing that our survival is linked to theirs, we can protect them by planting bee-friendly gardens and supporting local conservation and pesticide reduction. It is a shared responsibility for everyone. It's time we stood up for the tiny heroes that have been looking after us for millions of years. By making these small changes, we are not just saving honeybees; we are safeguarding the future of our planet.

Dr. Anindita Chakravarty
Asstt. Prof. Bijni College, Bijni

Sleep Apnea



15th February in the year 2022, we lost World famous Legendary singer and composer Bappi Lahiri. According to the doctor, the cause of his passing was obstructive sleep apnea and related health issues. That was a great shock for us.

What is this sleep apnea disorder?

Sleep apnea is a serious, common disorder where breathing repeatedly stops and starts during sleep due to low blood oxygen level. Low Oxygen level is caused by partial or complete upper air passage obstruction during sleep, resulting in discontinuous breathing. Symptoms include loud snoring and breathing pauses while sleeping.

Symptoms include- Waking suddenly from sleep with brief episodes of snoring, Excessive day time sleepiness, morning headaches, moodiness and loss of concentration.

Sleep apnea may be of three types-

1. Obstructive sleep apnea- This is the most common type of sleep apnea. It results at the back of throats when the air passage repeatedly gets completely or partially blocked on sleeping. This usually happens when the soft tissues work at the back of throat collapses and the muscle of face and neck relax while sleeping. At this situation, the diaphragm and chest muscles have to work harder than normal to open the air passage. The person starts to breathe with loud gasps and body may jerk. It can affect sleep, lower the flow of oxygen to the vital organs and lead to abnormal heart rhythms.

The main causes of obstructive sleep apnea (OSA) are-

Physical traits- Generally a narrow throat, large tonsil/adenoids, large tongue, small jaw or excess fat in the neck can physically block the air passage.

Obesity - Obesity is the major factor as deposited fat narrows down the air passage.

Muscle relaxation: Alcohol, sedatives and aging relax throat muscles, making collapse the air passage more likely.

Nasal issues: Chronic nasal congestion or obstruction can trigger apnea.

Life style and Family history: Smoking increases the disorder and family history increases risk.

The other two types of sleep apnea are-

Central sleep apnea- It is related with the function of central nervous system. Air passage does not get blocked. Instead, brain fails to instruct pulmonary muscles to breathe because of issues in respiratory control centre. This type most often affects people with neuro muscular disease.

Complex sleep apnea: This is a combination of both obstructive and central sleep apnea.

Some types of sleep apnea disorder can be controlled or cured by weight loss, using devices on nose at the time of sleeping, medication and surgery of air passage.

Mrs. Lipika Dey Dutta
Asstt. Prof. Bijni College, Bijni



Empowering Youth for Viksit Bharat

Viksit Bharat' is aimed to developed India and Indian youth all-round. Viksit Bharat 2047 is the government's vision to drive the mission of making India a completely developed nation by its 100th anniversary of independence in 204. The goal is to transition youth from being mere beneficiaries to becoming active nation-builders by 2047. The primary topic for the Viksit Bharat Youth Parliament 2026 is “50 Years of Emergency: Lessons for Indian Democracy designed for youth aged 18–25 to discuss strengthening democratic values and constitutional principles. Through this endeavour, students will ideate, design, and develop prototypes under four themes of national importance: Vocal for Local, Atmanirbhar Bharat, Swadeshi, and Samridhd Bharat. The Viksit Bharat Youth Parliament is a platform for young voices to engage in national discussions and shape the vision for Viksit Bharat@2047. It fosters leadership, civic participation, and policy discussions, enabling students to deliberate on key national issues. The vision is based on four pillars: Yuva (Youth), Garib (Poor), Mahilayen (Women), and Annadata (Farmers). Yuva (Youth) emphasizes focusing on education, skill development, and employment opportunities. Garib (Poor) aims for poverty alleviation and elevating the vulnerable population. Mahilayen (Women) keeps ensuring women's participation, safety, and empowerment in the workforce and society. Annadata (Farmers) stresses on modernizing agriculture and enhancing farmers' income to ensure food security. For youth empowerment followed the basic criteria as promoting social change through active citizenship and volunteering, driving economic growth with entrepreneurship and skill development and advocating for education, equality, and environmental protection.

Empowering India's youth for Viksit Bharat @2047 involves leveraging a massive demographic dividend—over 50% of the population under 25—through quality education, skill development, and active leadership roles. Key initiatives like the Viksit Bharat Young Leaders Dialogue and Rozgar Mela foster innovation, entrepreneurship, and political engagement. Youth power is both the agent of change and also the beneficiaries of change. The beneficial outcomes to youth empowerment programs are improved social skills, improved behavior, increased academic achievement, increased self-esteem and increased self-efficacy. Youth play a crucial role in nation building by contributing fresh ideas, energy, and innovation to society. Positive youth development is a framework that highlights the things youth need to become successful. It focuses on strengths instead of limitations and is associated with the five Cs - competence, confidence, character, connection, and caring. The Viksit Bharat Ambassador initiative, particularly through the "Yuva Connect" program, is a youth-led movement aimed at realizing the vision of a developed India by 2047. It acts as a platform for young volunteers to engage in, share ideas, and foster leadership for nation-building.

Dr. Sewali Pathak
Associate. Prof. Bijni College, Bijni



Voice of the Forest

“If you listen carefully, the forest still speaks.”

I am the forest...
Older than your cities,
Quieter than your restless roads.
I have stood for centuries,
Breathing life into your world.
My trees whisper stories,
My rivers sing softly,
And beneath my shade, life quietly
grows.
But now, I feel the silence—
Songs fading,
Footsteps coming with axes and fire.
I ask for nothing,
Only the chance to breathe.
Remember, human—
Your breath once passed through my
leaves.
If I disappear,
A part of you disappears too.
But if you choose to care,
If you protect what still remains,
Then my trees will whisper,
My rivers will sing,
And my voice will live on.

Abhijit Basak
-Student (6th Semester)

BIOPHONY

In fields,
In forests, In quiet observation,
I follow the footsteps of life's
conversation.
A wing in the sky,
a trail in the sand,
Each creature writes stories across
the land.
With notebook and patience,
I pause and see,
The science hidden in simplicity.
For zoology is more than what
meets the eye,
It is learning how the wild lives,
moves, and why.

Nikita Tarafdar
-Student (6th Semester)



The Unseen Threads of Life

What appears to be silent and ordinary in nature is, in reality, a complex web of invisible connections. Every organism, from the smallest insect to the largest predator, is linked through delicate ecological threads that sustain life on Earth. This biodiversity tapestry ensures the flow of energy, the cycling of nutrients, and the stability of ecosystems.

Yet, these connections are fragile. Climate change, habitat destruction, and human interference are gradually weakening this natural balance. The loss of even a single species can trigger cascading effects across the ecosystem. A decline in birds or pollinators, for instance, disrupts seed dispersal and plant regeneration, ultimately affecting entire food chains.

As a zoology student, I had the opportunity to understand these connections through my project on bird diversity in the Bijni locality. My observations revealed that birds are not merely part of nature's beauty, but essential contributors to ecological balance. They play a key role in seed dispersal, pollination, and controlling insect populations. I also noticed how urbanization and the reduction of green spaces directly influence their diversity and behavior.

In this critical time, the role of youth in conservation is more important than ever. Through awareness, research, and responsible actions, young minds can help protect and restore these unseen threads.

Nature does not need us, but we need nature. By preserving these connections today, we are not just protecting biodiversity—we are securing the future of life itself.

-Sanjita Barman

`Student(6th Semester)

