

# SPARK



A Newsletter for Don Bosco University family, alumni and friends

Volume 16 | Issue 4 | 2024



## WORKSHOP ON BASIC PLASMA PHYSICS



Pharmacy Week



MoU with LCBRIMS Tezpur



Trip to Kaziranga



International Conference on Environmental  
and Energy Research

## Message from the Vice Chancellor

### Christmas for Peace: A Call for Non-Violent Living in a Troubled World

The Christmas season is traditionally a time of joy, reflection, and goodwill; a time of gifting and celebrating; a time of renewing and extending friendships. As the festivities approach, towns and cities transform into vibrant hubs adorned with twinkling lights and festive decorations, creating a magical atmosphere that draws locals and tourists. It's a time for those away from their families to return from the places of their work, studies and other pursuits to celebrate this joyous event with their loved ones. Holiday markets come alive with vendors offering handmade crafts, seasonal foods, and beverages, while popular destinations host special events like Christmas markets and get-togethers. This festive spirit not only invigorates local economies but also strengthens community bonds, making Christmas a truly universal celebration of joy and togetherness.

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Christmas is a celebration of Peace. However, the global landscape this year is marked by significant and widespread unrest across various countries, each with its distinct causes and dynamics - the ongoing wars and violence, political turbulence, civil unrest and ethnic conflicts in various parts of the world. These bring to the fore the fragility of Peace-Keeping institutions and organisations at the global, national and regional levels in the face of unrelenting aggrandisement and exclusive perceptions.

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At the political, social, economic, and religious levels, we are witnessing an increasing trend of interventions by legislative, executive, and judicial bodies. Some of these actions appear to disrupt the balance of equity and equality, favouring one group over another. Consequently, this creates social and religious tensions that fuel intolerance and divisions based on religion, culture, and ethnicity. As a result, the lives of individuals, families, and communities become polarized and hostile.

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Increasing polarization in contemporary society has made religion a prominent identity marker, often linked to conflict rather than peace. While historically a unifying force, religion now frequently acts as a catalyst for division and violence, fostering an "us versus them" mentality. In multi-religious countries like ours, political movements often align with specific religious ideologies, intensifying social divisions. In the Middle East, sectarian divides and territorial interests have fuelled conflicts, exacerbated by external powers pursuing their interests. Similarly, the rise of populist movements in the West has highlighted religious and social polarization, particularly around immigration and the integration of migrant populations. Media representation significantly shapes these perceptions, often focusing on violent extremism while overlooking the peaceful contributions of religious communities, thereby reinforcing stereotypes and deepening societal divides.

What energy or life force within humanity can liberate us from the constraints of the "Us versus Them" mentality? Every individual—whether theistic, agnostic, atheistic, or non-religious—possesses a sacred inner space where they connect with the universe as a whole. In this realm, distinctions fade away, and we merge into a singular reality. To label this experience would be to confine it to yet another religion.

It is within this sacred space that we can recognize each person as an



integral part of the greater whole. This realization has inspired civil societies and compassionate individuals to engage in interfaith dialogues aimed at fostering peaceful and harmonious coexistence. Drawing on the essence of their spiritual and communal experiences, they express the deeper vibrations of their hearts. In this exploration, they delve into the depths of their being, seeking the calmness and serenity that only a divine presence can provide. Such movements have facilitated healing and peace in communities ravaged by senseless violence, restoring respect and humanity.

This spirit resonates with the ancient Sanskrit phrase "Vasudhaiva Kutumbakam," which translates to "the world is one family." Rooted in Indian philosophy, particularly within the Maha Upanishad, it conveys a powerful message: "This one is mine, this one is another's," say the small-minded; "the wise believe that the entire world is a family" (Maha Upanishad 6.71-75). This profound concept champions global unity, reminding us that all humans—regardless of nationality, ethnicity, or religion—are interconnected and should treat one another with compassion and empathy.

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Christmas is deeply intertwined with this sacred space of the family – a celebration where God is pitching his tent among us, as expressed in John 1:14. It is a time when diverse groups, communities and nations come together to meet, recognise, rejoice and adore the divinity within and among us. This echoes the profound realizations found in ancient texts such as "Aham Brahmasmi" from the Yajurveda and "Tat Tvam Asi" from the Upanishads, affirming that we are indeed temples of God, as stated in 1 Corinthians 3:16. The 13th-century Persian poet and Sufi mystic Jalal al-Din Rumi beautifully encapsulated this sentiment when he wrote, "I looked in temples, churches, and mosques. But I found the Divine within my heart." When we appreciate this life as a gift received, characterised by communion and resilience, we begin to embody the principles of "Laudato Si" as articulated by Pope Francis; we begin to live as stewards of the Earth.

Wish you all a new journey in the new year 2025 - moving from 'gift makers' to 'becoming the gift' by absorbing all negativity and transmitting the life-giving energy to everyone.

- Fr (Dr) Jose Paley  
Vice Chancellor



## Thirteenth Convocation of the University

The Thirteenth Convocation of the University was held on 14th September 2024 at the university campus in Sonapur, Guwahati. Dr. Montukumar M. Patel, President of the Pharmacy Council of India, graced the event as the Chief Guest, alongside Vice Chancellor Fr. (Dr.) Jose Palley, Pro Vice Chancellor Fr. Joseph Nellnatt, Directors of Schools, Heads of Departments, faculty members, students, and dignitaries from across the country.

Degrees were conferred upon 1,316 students, including 581 bachelor's degree recipients in Engineering & Technology, Arts, and Basic Sciences, and 613 students awarded master's degrees across various disciplines in Engineering, Science, Humanities, and Management. Additionally, 32 doctoral degrees were conferred to accomplished scholars. Under AD-BU's Global Online and Distance Education Programme, 87 students received degrees, and 3 students received diplomas across different programmes.



Gold Medals were awarded to 39 outstanding graduates with the highest Cumulative Grade Point Average (CGPA) in their respective programs. The Chancellor's Medal for the outstanding graduate in Postgraduate (PG) courses was conferred on Prottyakshi Chetia from the Department of Chemistry. The Fr. Stephen Mavelly Gold Medal for 2024 was awarded to Aakash Banerjee from the Department of Computer Science and Engineering for his exceptional academic performance, social commitment, leadership, and involvement in extracurricular activities.

The JN Bawri Medal of Distinction for 2024 was awarded to Monteiro Ambrose Bosco John from MSc Psychology for his academic excellence, leadership skills, positive influence on the student community and social commitment. The Partha De Gold Medal for Excellence in MSc Counselling Psychology was awarded to Ms. Merasen-na Jamir for her all-round distinction in the program, demonstrating outstanding academic achievement, a deep understanding of psychology, and a dedication to helping others through psychological counselling.

In alignment with ADBU's mission of social commitment, the university introduced the Partha De Scholarship, aimed at students passionate about dedicating their lives to mental health and counselling. This year, the scholarship was awarded to Nafisha Ara Begum for her role as an Ambassador for Counselling Psychology, her passion for psychological counselling, her volunteer work at a mental health clinic and her dedication to helping children and families through counselling.

## ICEESRE-2024

The International Conference on Emerging and Environment Sustaining Renewable Energy (ICEESRE-2024) was held on 24th October 2024 at Azara Campus.

The inauguration ceremony was graced by the presence of distinguished guests, including chief guest Prof. Sisir Kumar Nayak, IIT Guwahati who delivered the keynote address. In the speech, Prof. Nayak emphasized the importance of international collaboration in addressing environmental issues and advancing energy technologies. Guest of Honour Prof. Wei-Te Chen, MIRDC, Taiwan said, "Conferences like ICEESRE-2024 serves as a platform for sharing knowledge and fostering solutions that can help us achieve a sustainable future."



Following the inauguration, the conference began its first plenary session, featuring presentations on topics such as advancements in renewable energy technologies, strategies for reducing greenhouse gas emissions, and the latest developments in environmental monitoring. Over the course of the event, ICEESRE-2024 hosted multiple technical sessions, and panel discussion covering a wide range of subjects, including sustainable energy policies, waste management, and clean water technologies. The conference attracted participants from more than four countries (India, USA, Taiwan, Iraq etc.), reflecting its status as a truly international event. More than 25 research papers were presented, with contributions from leading academic institutions, research organizations, and private sector representatives.

## Career Prospects in the Department of Atomic Energy

The Interdisciplinary Research (IDR) team at Assam Don Bosco University, in partnership with the prestigious Bhabha Atomic Research Centre (BARC) organized an enlightening event titled “Career Prospects in the Department of Atomic Energy, Government of India.” The event, hosted in the university’s Academic Block 1 Auditorium, gathered students and faculty from a variety of disciplines, with a strong turnout of students in attendance, reflecting significant interest and enthusiasm for the session.



The session featured two prominent speakers from BARC – Shri G.R. Ursal, Scientific Officer and Group Leader of the BARC Technology Transfer, Deployment, and Outreach Group and Dr. Paramjeet Rana, Scientific Officer-G from the Advanced Tunable Laser Application Division (ATLAD)

The core focus of the event was to educate students about the diverse career opportunities available within the Department of Atomic Energy (DAE) and BARC. Both speakers provided insightful presentations on how students from various fields, including the Department of Mathematics, Physics, Chemistry, Zoology, Botany, and Biosciences, could pursue career paths in DAE and BARC. They covered the application criteria, internships, job roles, and the dynamic work environment at BARC, inspiring students to

explore roles that align with their academic backgrounds.

In particular, Shri Ursal discussed the process of technology transfer and the impact of BARC’s innovations on industries and communities. Dr. Rana delved into opportunities and prospects on different multidisciplinary innovative research with laser applications, and nuclear radiations illustrating how advanced science opens new career possibilities and contributes to practical problem-solving in fields such as healthcare, defense, and industrial applications.

The event concluded with a vibrant interactive session, where students engaged actively with the speakers, asking questions about the application processes, career paths, and future possibilities in their respective domains.

## Workshop on Basic Plasma Physics

The Department of Physics organized a one-day Workshop on Basic Plasma Physics (WBPP-24) on 27th September, 2024. This workshop has been annually organized by the department since 2018. The main objective of WBPP-2024 was to provide basic theoretical and practical exposure on plasma physics to undergraduate and postgraduate students of different colleges and universities of the region. The theme of the workshop was Dusty Plasma this year.

Dr. Pratikshya Bezbaruah, Biswanath College, Assam and Dr. Bidyut Chutia, CPP-IPR, Assam; were invited to deliver talks on the thematic area of the workshop. A total of 38 students including 13 students from various universities and colleges of Assam and 25 students from ADBU participated in this workshop.



The workshop started with an inaugural session, Fr. Dr. Zacharias George, the honorable Registrar, ADBU, and Dr. Monmoyuri Baruah Head of the Department of Physics addressed the gathering and extended hearty welcome to the participants and the invited speakers to the event. Dr. Sumita Kumari Sharma, convener of WBPP-2024 presented a brief overview of the workshop and presented a summary of the day long program scheduled. The inaugural session ended with national anthem.

In the first technical session, the invited speakers, Dr. Pratikshya Bezbaruah and Dr. Bidyut Chutia introduced the concept of Plasma and its significance in the context of the history of the Universe. Types of plasma were discussed with special focus on dusty plasma. Basic theoretical concepts were introduced in simple and understandable ways. Role of Plasma in the scope of technological developments in the future were also deliberated upon. The speakers created an interactive atmosphere and addressed the queries of the participants.

The participants visited the laboratory facilities at CPP-IPR Nazirakhat, Sonapur, in the second half of the workshop. There, they were exposed to different laboratory plasma systems like double plasma, pulsed plasma, and RF plasma system etc. Students were able to explore the different setups designed for various dedicated experiments and research work carried out in these facilities. Participants also interacted with the scientists and research scholars at CPP-IPR.

A short valedictory session was organized at CPP-IPR. The participants expressed their gratitude for being given an exposure to the world of plasma physics through this workshop. They shared their thoughts on their experience and the knowledge gained through the lectures, the lab visits and the interactions. The workshop ended with distribution of certificates among the participants.

### iHED – International Higher Education Dialogue

The German Academic Exchange Service (DAAD), Delhi, organizes a two-day workshop on iHED – International Higher Education Dialogue Pathways to Internationalisation between Europe and India on 14 – 15 October 2024, in partnership with Assam Don Bosco University for Heads of International Offices at Higher Education Institutions.

The resource persons – Dr. Katja Lasch, Director, DAAD India, Ms Juliane Terpe, University of Applied Sciences Dresden, Ms Katharina Pingel, University of Leipzig and Shikha Sinha, DAAD India took turn in presenting various topics and strategies during these two day-workshop.

The workshop focussed on structural framework conditions for internationalization, implementation of contracts for international cooperation, and structures to support and manage international cooperation projects. The National Education Policy (NEP 2020) of India sets the legal framework for key reforms of the higher education systems and highlighted for the first time the importance of international cooperation in higher education and research. Mention may also be made that under India's G20 Presidency in 2023, one priority area of the G20 education working group is building capacities and strengthening research through stronger and more productive international collaboration. The workshop is being offered by German experts and is expected to bring more practical insights to leverage the framework of the NEP 2020 and the priority area incepted in the G20 summit.



During the workshop participants had brainstorm interactive sessions, developed ideas for internationalisation strategies, and were given insight into international cooperation project management. The formats of the workshop were presentations, group work, and brainstorming sessions., etc. will be offered by German experts.

### MoU with LGBRIMH, Tezpur

The Department of Psychology signed an MoU with Lokopriya Gopinath Bordoloi Regional Institute of Mental Health, Tezpur on 23 September 2024. The MoU was signed by Dr. Hemanta Dutta, Deputy Director, LGBRIMH on behalf of LGBRIMH, Tezpur and Dr. Chandita Baruah, Head, Department of Psychology, on behalf of Assam Don Bosco University.

As per this MoU, LGBRIMH agreed to train 46 students of Don Bosco University students for a period of 45 days in a year and impart necessary skills and practical exposure to the students. Given the fact that, LGBRIMH is the top institute in North East India in Mental Health studies, this MoU will pave a way for students of Psychology at Don Bosco University to get specialized training and acquire necessary skills to deal with people with mental health issues. The MoU was signed for a period of five years.





## Regional NAOP Conference

The Department of Psychology, Assam Don Bosco University, Sonapur, Assam in collaboration with NERIM Group of Institutions, Assam organized a two-day Regional Conference of National Academy of Psychology (NAOP) on the 8th and 9th of November 2024. The theme of the conference was 'Recent Trends in Psychology'. The conference brought together academicians, researchers, practitioners, and students to engage in meaningful discussions and share the latest developments in the field. It also provided a platform to explore current psychological trends, the integration of emerging practices, and the practical implications of recent findings across diverse areas of psychology.

The National Academy of Psychology (NAOP) is a prestigious organization dedicated to the advancement of psychology in India. Established in 1980, NAOP serves as a platform for psychologists and researchers across the country to collaborate, share knowledge, and promote the growth of the discipline.



## Workshop on Research Proposal Writing

The Department of Economics organized a one-day workshop titled "Research Proposal Writing" on September 9, 2024. The workshop aimed to guide master's students who are currently working on their dissertations, equipping them with essential skills in research proposal development. The key topics covered include formulating a research question, crafting a literature review, understanding citation and referencing methods, and setting research objectives or hypotheses. The workshop was



also designed to highlight common challenges in proposal writing, such as managing plagiarism and maintaining academic rigor. The topics and resource persons were - Basic Stages of Research Proposal Writing - Dr. Ananya Kashyap, Literature Review - Dr. Pranti Dutta, Citations, Referencing, and Plagiarism - Mr. Gautam Gogoi, Formulating Objectives, Hypotheses, and Research Questions - Dr. Polakshi Bhattacharyya Baruah

At the conclusion of this workshop, students gained a clearer understanding of how to construct a research proposal that adheres to academic standards and were expected to be able to identify a research gap, conduct a comprehensive literature review, cite references correctly, and set

clear research objectives and questions. Through guided sessions and focused discussions, participants developed essential academic skills, laying a strong foundation for their research projects.

## Tree Plantation Campaign

As a part of the celebration of India's 78th Independence Day, the Department of Economics in association with the ECONLOG Club organized a Tree Plantation Campaign under the theme "Save Trees and Save the Planet" on 17th August 2024. This campaign was an initiative to raise environmental awareness and actively contribute to the enhancement of green cover in the fringe villages surrounding the Assam Don Bosco University's Tapesia Campus. The event aimed not only to plant trees but also to foster environmental responsibility and sustainable livelihoods within the local community. By choosing fruit-bearing commercial trees for the plantation, the campaign intended to provide long-term economic benefits to the villagers, thereby encouraging them to participate in environmental conservation.



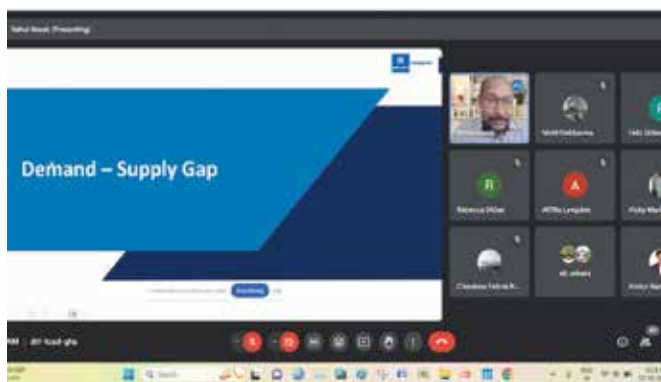
The campaign activities began with a procession of students, faculty members, and volunteers who gathered at 9:45 AM in front of Academic Block-2. Carrying banners and placards with messages about environmental conservation, the group

walked through the campus and headed towards the nearby villages. The procession drew attention to the campaign's cause, engaging both the students and onlookers in the spirit of environmental stewardship. Upon reaching the villages, the participants were joined by members of the local community who expressed enthusiasm in contributing to the plantation drive. The event involved planting a variety of fruit-bearing trees, such as mango, guava, and jackfruit, in selected areas with community access. Each tree was planted with careful instructions on maintenance and care, ensuring that villagers understood how to nurture the trees for future harvests.

The plantation drive saw the active participation of students, faculty, and villagers, fostering a sense of unity and shared purpose. The ECONLOG Club representatives educated villagers on the benefits of planting fruit-bearing trees, emphasizing how such trees can support local biodiversity and provide economic advantages. Villagers responded positively, expressing interest in taking ownership of the plants and maintaining them. The initiative was also instrumental in creating awareness about the urgent need to combat deforestation and protect natural resources for future generations.

### Special Talk on 'Employability Skills in the Banking Sector'

On 7th September 2024, the Department of Economics at Assam Don Bosco University organized a Special Talk on "Employability Skills in the Banking Sector" in an online mode for final-year BA and MA Economics students with Mr. Rahul Basak, a distinguished trainer from TimesPro as the resource person. The event aimed to equip students with essential skills and insights for successful career placements in the banking sector, highlighting industry expectations and best practices for employability.



Mr. Basak's talk was structured to provide students with a comprehensive understanding of the specific skill sets sought by recruiters in the banking sector. He emphasized critical skills such as analytical thinking, communication, customer service, and financial literacy, along with the importance of adaptability in a rapidly evolving sector. He discussed key areas such as resume building, interview techniques, and sector-specific competencies. The interactive session also included a Q&A segment, where students engaged actively, seeking guidance on various aspects of bank recruitment and career pathways. Faculty members were present to support and encourage student participation, recognizing the value of such insights for transitioning from academic learning to professional engagement.

This session, rich in practical knowledge, proved invaluable to students poised to enter the workforce, offering them a realistic perspective on the expectations and career opportunities in the banking sector.

### Budding Entrepreneurs Market Day

The Budding Entrepreneurs Market Day 2024 was successfully organized by the Department of Economics on 11 September 2024, at Assam Don Bosco University's Tapesia Campus with an aim to foster entrepreneurial skills among students. The event proved to be an inspiring platform for budding innovators to present their ideas and engage in practical business activities. The market day showcased the efforts of 48 participants grouped into 10 teams, each tasked with creating unique products within a limited raw material budget of ₹600. This challenge encouraged the teams to maximize their creativity and resourcefulness, resulting in a diverse array of products, including food items, handmade charms, and innovative merchandise.



The event began at 10:15 AM and continued till 12:00 PM, with a lively setup of stalls in the campus. A large number of students and faculty members from various departments visited the stalls, showing enthusiastic support for the entrepreneurial spirit on display. The market atmosphere was vibrant, with all products quickly gaining interest and successfully sold by the end of the event. The Budding Entrepreneurs Market Day 2024 was a resounding success, giving participants practical exposure to business operations and building their confidence. It also fostered a strong sense of community, highlighting the innovative potential of our students. The positive feedback from attendees further emphasized the impact of the event, setting the stage for future initiatives to nurture student entrepreneurship at Assam Don Bosco University.

## Departmental Seminar for PhD Students of Economics

The Department of Economics hosted a departmental seminar for PhD scholars on 18th October 2024, where 11 PhD scholars of various batches of the Department of Economics at Assam Don Bosco University presented their progress report in Room No. 211 (Academic Block-II). The presentations covered a broad spectrum of economic topics, showcasing innovative methodologies and significant contributions to their respective fields. This seminar provided a platform for critical academic discussions, offering valuable feedback to the scholars and promoting an engaging exchange of ideas among peers and faculty members. This feedback presumably aimed to refine research methodologies, fortify arguments, and rectify any identified deficiencies, thereby promoting academic progression and upholding research standards. It was a constructive session aimed at enhancing the quality and impact of doctoral research within the department.



## Workshop on Communication and Workplace Skills

During 21st – 26th October 2024, the Department of Economics, Assam Don Bosco University organized a One Week Workshop on 'Communication and Workplace Skills for the Banking Sector', aimed at enhancing the students' interpersonal and professional communication skills. Recognizing the importance of effective communication as a cornerstone of workplace success, the workshop was crafted to equip attendees with practical tools and strategies to navigate diverse professional settings.

The workshop sessions addressed both verbal and non-verbal communication skills, along with best practices for written communication and conflict resolution. Through interactive activities, role-playing exercises, and expert-led discussions, participants gained insights into improving workplace interactions, enhancing clarity in communication, and fostering a collaborative work environment. The workshop underscored the significance of adapting communication styles to various scenarios and building relationships that contribute to a positive and productive workplace culture. This initiative not only aimed to boost individual skills but also to contribute towards a cohesive organizational culture rooted in effective communication.



Our resource person for all sessions of the entire week was, Devanjan Sarkar. He is a distinguished HR and Learning & Development professional dedicated to empowering students and professionals across India. His expertise spans HR, sales training, CRM, leadership, retail, and communication, with a training history impacting over 5000 candidates across 50+ organizations. His experience includes interviewing over 500 individuals and providing high-impact training to companies such as CTS, Future Retail, Reliance Jio, and MP Birla Group, as well as government projects for the Ministry of HRD and the Government of West Bengal. His goal is to drive career empowerment through meaningful learning experiences.

This training equipped participants with critical communication skills, professional interaction techniques, and workplace strategies for effective focus and prioritization. Devanjan Sarkar's teaching approach, grounded in practical examples and interactive exercises, provided valuable insights that will be instrumental in the students' academic and professional journeys.

## Field Survey

On 8 November 2024, a team of 48 students and 2 faculty members from the Department of Economics conducted a field survey in Sualkuchi town and nearby areas to study the state of labour and employability focussing on digital technology. Known as the 'Manchester of Assam', Sualkuchi is renowned for its weaving industry, which sustains the local economy and provides substantial employment. This survey aimed to assess the employment landscape, labour challenges, skill requirements, and socio-economic factors influencing employability.

The survey employed a data collection survey through structured questionnaire created in Google Form online to gather the information with using printed materials to save papers. The participants included local weavers, business owners, ap-



prentices, and labourers. To ensure representative sampling, we surveyed individuals across various age groups, gender, and economic backgrounds.

The survey underscored the importance of the weaving industry in Sualkuchi's socio-economic landscape. While the sector offers substantial employment, it faces significant challenges, including skill mismatches, outdated technology, and limited income stability. To sustain the weaving tradition and enhance employability, a concerted effort involving skill development, modernization, and financial support is crucial. With appropriate interventions, Sualkuchi has the potential to not only preserve its cultural heritage but also create a viable future for its workforce, ultimately contributing to the economic development of the region.

### Career Counselling Seminar

A seminar on career counselling was held on 11th September, 2024 at the conference hall of Assam Don Bosco University, Azara Campus. The seminar was organized jointly by the Department of Mechanical Engineering and Career Guidance Cell, Assam Don Bosco University School of Technology. The resource person for the Seminar was Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering, Assam Skill University.

Dr. Shubhajit Das delivered an insightful talk covering various aspects of Mechanical Engineering, including its three main domains - design, thermal and manufacturing. He also discussed the significance of modern technologies such as the Internet of Things (IoT), Data Science, Cyber-Physical Systems, and Cloud Computing in the context of Industry 4.0. He elaborated on the roles of engineers and the skills required in different sectors, including oil and gas, research and development, additive manufacturing, supply chain and logistics, and academia. Dr. Das advised students on how to prepare for their careers by focusing on key areas such as preparing a strong CV, gaining deep knowledge in core subjects and preparing for group discussions. Additionally, Dr. Das encouraged students to be positive and confident during interviews. He discussed several important examinations for further studies and job opportunities, including GATE, IES, RRB, BRO, TOEFL, and GRE etc. Overall, the seminar was a valuable experience, providing students with practical advice and insights into career opportunities in Mechanical Engineering and beyond. The number of participants of the seminar was 36.



### GATE Awareness Programme

GATE awareness cum orientation programme was organized by the Department of Mechanical Engineering on 25th September 2024 at Azara Campus. The programme was initiated by GATE Chairman, Prof. S. N. Joshi, IIT Guwahati and the resource person was Prof. Prakash Kotecha, Associate Professor, Department of Chemical Engineering, IIT, Guwahati.

Prof. Kotecha gave A to Z information on GATE – right from applying to the usefulness of GATE score. He drew the attention of students towards the potential of GATE score not only for getting admission in reputed institute with scholarship, but also for getting jobs in PSUs, direct admission to Ph.D. etc. He also explained the validity of GATE score, and its impact even after official validity of 3 years is over. The selection of papers, marks distribution, types of questions etc. were also thoroughly explained. The number of participants of the program was 74.

### Alumnus Talk

The Department of Mechanical Engineering organized an alumnus talk on 22nd October 2024 at Azara campus. Mr. Ayon Jyoti Bharadwaj, Technical Sales Executive, Vetrotech Saint-Gobain, an alumnus from the Department of the Mechanical Engineering, 2020-24 batch addressed the gathering. In his talk, he explained about the sustainable fire-resistant safety and high-security glasses produced by Vetrotech for the building and informed about the career opportunities at Vitrotech. He also shared the information of his interview during his selection at Vetrotech Saint-Gobain. He discussed how to prepare for the GATE examination. He answered various questions asked by the students. The informative and inspiring talk ended with a vote of thanks by Dr. Buljit Buragohain, Head, Department of Mechanical Engineering. The number of participants was 38.



## Invited Talk on Rotordynamics Applications in Mechanical Engineering

The Department of Mechanical Engineering organized an invited talk on “Rotordynamics Applications in Mechanical Engineering” on November 13, 2024. Mr. Rakesh Deore, a distinguished researcher from the Electromechanical and Microsystems Lab at the Indian Institute of Technology (IIT) Guwahati was the resource person.

Mr. Deore began his talk by providing an in-depth introduction to the field of rotordynamics. He elaborated on the fundamentals, starting with single-degree and multi-degree of freedom systems, explaining their significance in mechanical engineering. Through detailed mathematical modeling, he demonstrated how these concepts form the foundation for analyzing and designing rotating machinery. He also discussed different types of rotors, their design parameters, and the practical considerations that influence their performance. In the latter part of the session, Mr. Deore delved into the dynamics of rotating machinery, emphasizing its critical importance in engineering applications. He explained common rotor faults, such as misalignment, and proposed effective methods to diagnose and address these issues. A significant portion of the talk was dedicated to the role of matrices and numerical methods in solving complex dynamics problems.



Mr. Deore also shared insights into how these methods are implemented in computer simulations, enabling engineers to optimize designs and solve real-world challenges efficiently. The talk was interactive and engaging, with students and faculty members showing great enthusiasm throughout the session. Mr. Deore’s ability to bridge theoretical concepts with practical applications made the session both insightful and relevant.

## Career Counselling in Sericulture



The Department of Zoology Assam Don Bosco University in collaboration with IQAC organized a career counselling session in Sericulture for the UG and PG students on the 29th October, 2024. The resource person for the event was Dr. Lalitha Natarajan, Scientist D, Eri Basic Silk Farm, Central Silk Board Topatoli. The event was divided into two sessions. In the first session the speaker spoke about the production and critical gaps in Sericulture and Research approach and in the second session she spoke about the weaving wealth and the economic potential of Sericulture. Dr. Lalitha enlightened the students about the different career opportunities in Sericulture in both the private and public sector. She focussed her talk on rearing

silkworms, managing crops, and improving silk yield and how to conduct studies to improve sericulture practices, breed better silkworms, or develop sustainable methods. She also encouraged the students to start their own sericulture business or silk-related enterprise as Entrepreneurs especially in North East India so as to promote silk products, understanding market trends and consumer preferences in the region. The session concluded with a Q&A session with the participants and a vote of thanks. The event was attended by a total of 62 participants

## Seminar on Clinical Research and Career Opportunities

The Institute of Pharmacy, Assam Don Bosco University, in collaboration with MITCON, organised an insightful Live Seminar titled Introduction of Clinical Research and Career Opportunities on 29th September 2024. The event was aimed at students, researchers, and professionals interested in understanding the growing field of clinical research and its vast career prospects.

The seminar, which commenced at 2:00 pm, featured two esteemed speakers: Jyoti Rekha Patra, a Clinical Research Expert and the Centre Incharge of Kolkata; and, Bhitali Lahkar, a Clinical Research Expert and the Center In-charge of Guwahati.





Both speakers shared their extensive knowledge of the clinical research landscape, focusing on the opportunities available for individuals seeking to build a career in this dynamic field. They emphasized the critical role clinical research plays in the development of new medical treatments and highlighted the diverse job roles in the industry, including roles such as Clinical Research Associates (CRAs), Clinical Data Managers, and Regulatory Affairs Specialists. The event provided a comprehensive introduction to the processes involved in clinical trials, from the design phase to execution and regulatory approval. The speakers also discussed the skills and qualifications needed for aspiring clinical research professionals, underscoring the demand for expertise in scientific methodology, regulatory standards, and ethical practices. The seminar concluded with an interactive Q&A session where participants had the opportunity to engage with the speakers, seeking advice on academic paths, internships, and long-term career strategies in clinical research. The success of this event has opened up future prospects for similar educational seminars aimed at equipping students with the necessary knowledge to thrive in the evolving field of clinical research.

### National Pharmacy Week

A Two-Day National Pharmacy Week Celebration was held by the Institute of Pharmacy on 18th and 19th November 2024, featuring a mix of sports, indoor games, and cultural activities.

The purpose of National Pharmacy Week (NPW) for students is to promote awareness about the pharmacy profession, enhance knowledge and skills through educational activities, foster professionalism, provide real-world exposure, encourage public health advocacy, and build networks with peers and professionals, preparing them for their roles in healthcare.



The Pharmacy Week Celebration brought together the university community, blending sports, culture, and a shared spirit of togetherness. The event not only encouraged physical activity and talent but also strengthened bonds among participants, making it a memorable experience for everyone involved.

### Northeast HR Conclave 2024

The Department of Commerce organized a Northeast HR Conclave, 2024 on November 15, 2024 at Azara Campus, with the motto "Decoding the Contemporary HR Mandate". The basic aim of this event was to address the evolving role of Human Resource (HR) in tackling modern workforce challenges.

HR managers from different corporate houses including ITC Limited, Aditya Birla Fashion and Retail Limited, Britannia, Employment Express, DS Excursion World Pvt. Ltd. were invited as resource persons of the event. The event featured expert discussions on emerging trends, skill requirements, career readiness, and strategies for recruitment, up-skilling, and employability. The HR Director of ADBU Ms. Juhi Baruah acted as the moderator of the event. Dr. Biju Mani Das, Head, Department of Commerce, inaugurated the session highlighting the significance of up-skilling and preparing students for future career opportunities. Participants included students from different educational institutions - Royal Global University, Girijananda University, BMBB Commerce College, B. Borooah College, Gauhati University.



In the technical sessions, Mr. Rupam Kumar Talukdar (ITC Ltd.) emphasized the importance of adapting to trends like AI and Industry 4.0, and highlighted the need for freshers to stay adaptable. Ms. Aparajita Baruah (Aditya Birla Fashion) discussed career opportunities and the role of Northeast students in hackathons and HR roles. Mr. Sandeep Jain (The Employment Express) shared practical advice on how to be market-ready, stressing the value of internships, networking, and building authentic skills. Ms. Juhi Baruah (HR Director, ADBU) talked about the skills necessary for employability, particularly in the context of Industry 5.0. In the next session, panelists discussed the importance of industry-academia collaboration, key competencies for students (e.g., communication, professionalism), and the role of HR in on-boarding and fostering growth. The conclave was a great success, providing valuable insights into the evolving HR landscape, skill development, career readiness, and recruitment trends, fostering meaningful interactions between academia and industry professionals.

## World Pharmacist Day 2024

The World Pharmacist Day 2024 was celebrated by the Institute of Pharmacy on 25th September 2024 with the theme 'Pharmacists Meeting Global Health Needs'. The program included a blend of academic lectures, student performances, and competitions, emphasizing the role of pharmacists in addressing global health challenges.

The purpose of the World Pharmacist Day 2024 event is to celebrate and highlight the vital role of pharmacists in meeting global health needs. The event aims to raise awareness of the significant contributions pharmacists make in patient care, medication management, and public health. Through lectures, cultural showcases, and competitions, the program promotes professional ethics, fosters cultural appreciation, and provides networking opportunities for students and professionals. It also serves to educate, inspire, and recognize the achievements of pharmacists, reinforcing their commitment to improving health outcomes worldwide.



## World Psoriasis Day



On 29 October 2024, The Institute of Pharmacy hosted an educational event for World Psoriasis Day, aimed at raising awareness about psoriasis—a chronic inflammatory skin condition.

The event featured an opening address by Mr. Peter De Roux Sumer, who emphasized the importance of understanding the medical, social, and emotional challenges associated with psoriasis. Through his insights, Mr. Sumer highlighted the need for ongoing research and compassionate patient care, aiming to inspire a sense of empathy among students.

This was followed by a session on crafting informative and impactful essays on topics related to psoriasis led by Mr. Pynshai. He provided a range of relevant themes such as the pathophysiology of psoriasis, the stigma surrounding it, mental health impacts, and recent treatment advancements. His guidance encouraged students to explore these topics thoroughly, incorporating both scientific knowledge and a compassionate perspective on patient experiences.

Students were then divided into groups to collaborate and present diverse perspectives on psoriasis. Each group was assigned a unique topic, including themes like "Breaking the Stigma," "Living with Psoriasis," "The Role of Global Awareness Days," "Psoriasis and Mental Health," and "Advances in Psoriasis Treatment." After careful evaluation, Group 3, Group 5, and Group 7 emerged as the winners for their innovative and well-researched presentations on understanding, supporting, and advocating for individuals with psoriasis. Their work was celebrated for its depth and creativity, making a lasting impact on all participants.

## Industrial Visit to NENPL Factory

The Department of Commerce organized an industrial visit to North East Nutrients Pvt. Ltd. (ITC Factory) on 21 September 2024, for the final-year students of the department. Upon arrival at the site, the students and teachers were welcomed to the lecture hall of NENPL, where all the interactions and discussions took place.

The first session began with an introduction to NENPL by the HR Manager, Mrinmoy Kaushik. Mrinmoy Kaushik also provided an overview of the main products manufactured at their factory, which include Bounce, Marie Light, and Dark Fantasy biscuits. The visitors were escorted to the shop floor to observe the manufacturing process after the HR Manager provided a detailed explanation of the safety guidelines to be followed. On completion of the visit to the shop floor, the manager of the NENPL was felicitated by the students which was followed by a question-and-answer session where students asked questions and their doubts clarified.



## Workshop on Financial Education for Young Citizens

The Department of Commerce in collaboration with National Institute of Security Markets (NISM) which is a CSR initiative of the Aditya Birla Capital, conducted a workshop on 23rd October, 2024 titled 'Financial Education for Young Citizens'.

This workshop was conducted with a focus on helping the young citizens to improve their awareness on different investment products available in the market and how they can generate wealth using these tools. The workshop was subdivided into eight sessions. The workshop on Financial Education for Young Citizens commenced with an introductory address by Dr. Jewel Mayur Phukon, Assistant Professor in the Department of Commerce. The session was led by Mr. Labo Kesh Nath, who represented National Institute of Securities Markets (NISM) in this workshop. He began by introducing NISM, explaining its vital role in promoting financial education and establishing security market standards across the nation. Mr. Nath outlined the workshop's key topics, which included an overview of various financial products and effective strategies for saving and investing. Moreover, Mr. Nath shared valuable insights into the numerous career opportunities available within the securities market. The workshop concluded with a closing speech by Dr. Biju Mani Das, Head, Department of Commerce, who encouraged students to apply the concepts covered during the workshop in their daily lives, reinforcing the need to make practical use of these lessons for a secure financial future. The workshop ended with Mr. Labo Kesh Nath conducting a quiz to assess each student's understanding of the topics covered.



## Social Outreach Programme

On November 13, 2024, the Department of Commerce organized an outreach programme at Rajdhar Bora Higher Secondary School (RBHS) in Azara, under the leadership of Dr. Biju Mani Das, Head, Department of Commerce. The programme aimed to foster mutual growth for both RBHS and ADBU students, focusing on quality education, future career guidance, and the development of key skills such as Computer Literacy, Soft Skills, English Proficiency, and Technical Knowledge. The inaugural session included a speech by Dr. Biju Mani Das, followed by interactive workshop on basic laptop operations, where ADBU students worked closely with RBHS students in small groups. A Spoken English class was conducted for students in classes 7 and 9, featuring activities like self-introduction, tongue twisters, and a debate on school uniforms, designed to improve English Communication Skills. Additionally, a discussion led by ADBU's B.Com First-Year students helped RBHS Class 10 students explore career paths, self-assessment, and skill development. The outreach programme reflected ADBU's dedication to community engagement, educational development, and fostering collaborative learning experiences.



## Field Visit to College of Fisheries

To encourage the final year students to develop observation, technical and conceptual skills and expertise in fish farming techniques, the Department of Zoology organized a day-long field visit to College of Fisheries, AAU, Raha, Assam on 8th November 2024. A total of 12 students from MSc 3rd Semester were accompanied by Dr. Rubaiya Hasan and Ms. Juli Morang.

The event began with a brief introduction on the Department, Research scopes and its on-going activities by the Dean, College of Fisheries, Dr. Pradip Chandra Bhuyan. In addition, Prof. Kamaleshwar Kalita, Head, Department of Aquaculture presented a valuable session on breeding of Indian



major carps by induced methods along with hatchery management techniques and Dr. Dhiren Nath, the Farm Manager, provided a valuable understanding during the visit to the various fish farms and hatcheries in the area. The students visited the Department of Aquaculture, Department of Fish Health Management, Department of Fish Resource Management and Department of Aquatic Environment Management, managed by the College of Fisheries, where they experienced first-hand exposure to the different instruments which included the Soxhlet Extraction Unit, Digestion Unit, Dietary Fibre Unit, Digital Nephelo-Turbidity Meter and others.

The visit provided students with valuable hands-on learning experiences that enhanced their understanding on aquatic ecosystem management, fish breeding, sustainable fishing practices, equipping students with the skills needed for future careers in the field. By engaging directly with professionals and observing practical application of their theoretical knowledge, students gained insights into the latest research, technology and industrial practices. Moreover, students foster a deep connection with the subject, making learning more relevant.

### Trip to Kaziranga National Park

As part of the experiential learning, the MSC 3rd Semester students with specialization in Animal Ecology and Wildlife Biology and in Entomology visited the Kaziranga National Park (KNP) and the Kaziranga Orchid Garden on the 9th and 10th November, 2024. A total of 28 students accompanied by three Faculties and one Lab Assistant participated in the Experiential Learning.



On the first day, the students visited the Orchid Garden and the museum where they are exposed to the different varieties of Orchids available. The garden is home to an impressive collection of over 500 species of orchids, including several rare and endangered varieties. The visit provided a great opportunity to learn about the various types of orchids found in the region. The guides explained the importance of these plants in the local ecosystem and the ongoing conservation efforts to protect the native species of orchids from over-collection and habitat destruction. Day one ended with a very interesting lecture by the Divisional Forest Officer of KNP where he highlighted the different habitats and species of KNP and the importance of Conservation where Rangers and local communities actively work together to combat poaching and protect the park's biodiversity. On the second day, the students went on a safari to KNP where the students got to witness the wide variety of species, including the one-horned rhinoceros, elephants, wild buffalo, otter, deers and a rich diversity of bird species. During the safari, the guide provided detailed insights into the park's biodiversity and conservation efforts. The trip was an enriching experience and full of learning.

### World Animal Day 2024



The Department of Zoology, Assam Don Bosco University celebrated World Animal Day on the 4th of October, 2024 in collaboration with Eco Club. The theme for this year World Animal Day is The World is their home too. The programme for the day included Drama Competition on the provided theme. Participants performed short skits with utmost sincerity in their concept, delivery and performance. The colourful props and serious agenda brought a wonderful contrast to the theme. There were five participating groups and 1st and 2nd prizes were given to the well performing groups based on their concept, script and delivery.

The competition was judged by Dr. Ranjita Chanda, Assistant Professor from the Department of Education and Dr. Pallabi Borah, Assistant Professor from the Department of Chemistry Assam Don Bosco University. The judges provided insight into various small aspects of Drama and its presentation on stage as well as enlightened the audience with their knowledge on the ongoing theme for World Animal Day.

Prizes were distributed to the winners by the Director, School of Life Sciences Prof. Prasanta Kumar Choudhury and Head De-



partment of Zoology, Dr. Jane Shangpliang. The programme was coordinated by Dr. Madhurima Das, Department of Zoology. The program was attended by a total 44 participants

### Model Selection in Ecology

The Department of Zoology Assam Don Bosco University on the 28th September, 2024 conducted a one-day long workshop on the topic Model Selection in Ecology. The resource person for the workshop was Dr. Narayan Sharma Assistant Professor, Department of Environmental Biology and Wildlife Sciences, Cotton University. The workshop aimed to provide participants with an understanding of various statistical models used in ecological research, focusing on how to select appropriate models for different ecological questions. The objective of the workshop is to familiarize participants with key concepts in model selection and to apply model selection techniques using real ecological datasets.



The workshop was divided in two sessions. The first session was an Introduction to model selection and model selection criteria and the second session was a hands-on session and case studies. After the sessions, participants gave their valuable feedbacks which indicated a strong interest in further training sessions on advanced modelling techniques.

The workshop successfully met its objectives, equipping participants with essential skills in model selection techniques in ecology. Professor Saibal Sengupta, Department of Zoology Assam Don Bosco University thanked the Resource Person and also gave his concluding remarks. The workshop was attended by a total of 21 participants

### Skill Enhancement Programme

The Department of Civil Engineering at Assam Don Bosco University organized a Skill Enhancement Program for the 5th semester Civil Engineering students on the 15th and 16th of November. The program focused on providing hands-on training in Theodolite and Total Station Surveying, aimed at equipping students with practical knowledge and enhancing their field skills in modern surveying techniques.



The resource persons were Mr. Simanta Banikya, JE, Irrigation Department, Govt. of Assam and Dr. Santanu Pathak, AE, PWRD, Government of Assam. The first session began with an introduction to Theodolite, focusing on its components, setup, and adjustments. Mr. Banikya conducted live demonstrations on angle measurements and basic surveying practices. Students then practiced individually under the expert's guidance, ensuring they developed confidence in handling the instrument.

On the second day, the morning session introduced students to Total Station, its components, and its operation principles. Dr. Pathak explained the advanced features of Total Station, including data collection, mapping, and error correction techniques. Dr. Pathak also demonstrated how the instrument is utilized in an under-construction bridge project over the Brahmaputra River. The afternoon session involved practical exercises, where students conducted field surveys, collected data, and performed computations using Total Station. The day concluded with a Q&A session, allowing students to clarify doubts and discuss real-world applications of these techniques.

The Skill Enhancement Program was a resounding success, providing a comprehensive learning experience that combined theoretical knowledge with practical fieldwork. Such initiatives underscore the Department of Civil Engineering's commitment to fostering skill development and preparing students to excel in their careers. The program set a benchmark for future training sessions and left a lasting impact on the participants.

## Industrial Visit to Britannia Industries Ltd

An industrial visit was organized for the BBA 3th-semester students to Britannia Industries Limited, located in Guwahati, on 23rd Oct 2024. The visit was arranged, coordinated and supervised by Dr. Rashmita Barua, Associate Professor, Department of Management, Assam Don Bosco University. This visit provided the students with a unique opportunity to gain practical exposure to the workings of an industrial plant, particularly focusing on the manufacturing sector. The resource person for the visit was the Plant Head, HR Cluster head, Production officer who, along with various sectional heads, guided the students throughout the tour.



The industrial visit was an insightful experience. It provided participants with a comprehensive understanding of the biscuit manufacturing process, from raw material procurement to final product packaging. The plant's use of advanced technology and strict adherence to hygiene and safety measures reflect Britannia's commitment to quality. Observing the production of four diverse biscuit varieties also showcased the company's ability to cater to different consumer segments while maintaining high production standards.

## Two-Day workshop on Solid Waste Management

A two-day workshop on "Solid Waste Management" was organized by the Department of Chemistry, on 27-28 September, 2024. The resource persons were Dr. Pradip Baishya, Professor, Mechanical Engineering Department, Assam Engineering College, and Ms. Binita Baishya, Proprietor, Eco Waste Management Plant, Kamakhya, Guwahati. A total of 63 participants, including UG, PG, & PhD students of the department participated in the programme. Technical sessions were held on the first day, and the second day was hands-on training for students at the eco-waste management plant, Kamakhya, Guwahati. Dr. Jyotirmoy Sarma and Dr. Nibedita Kapil were Convenor and Co-convenor of the workshop respectively.



## MoU Signing and Workshop on Proteomics

On 24th September 2024, a significant milestone was achieved with the signing of a Memorandum of Understanding (MoU) between Assam Don Bosco University and Guwahati Biotech Park (GBP), Guwahati, Assam. To mark this collaboration and validate the agreement, the School of Life Sciences organized a one-day hands-on workshop on Proteomics titled "Proteomics: Hands-On Workshop on Protein Extraction, Analysis, and Beyond." The event brought together students, researchers, and faculty members from various disciplines. The speakers for the workshop were Dr. Bula Choudhury, Senior Scientist, Guwahati Biotech Park, Assam who provided insights into the latest advances in proteomics research and its applications. Dr. Bula Choudhury highlighted the advantages of collaboration and the valuable research opportunities students will gain through their exposure at GBP. The second resource person Dr. Rajiv Goswami, Research Associate at GBP, guided participants through hands-on training in protein extraction and analysis techniques.



The event witnessed an enthusiastic response from students and professionals alike, with 50 attendees including Postgraduate Students, Research Scholars, Faculty Members, and Laboratory Technicians. The MoU signing and Proteomics workshop marked the beginning of a promising collaboration between ADBU and GBP. The one-day event successfully empowered participants with critical proteomics skills and facilitated valuable interactions between students, faculty, and experts in the field. This partnership is expected to lead to continued growth in Biological Sciences education, research, and training, benefiting both institutions and the broader scientific community.



### Invited Talk on Applied Engineering Mathematics

An invited talk on “Applied Engineering Mathematics” was organised by the Department of Civil Engineering on 30th August 2024 for UG and PG students of the department. The resource person for the talk was Prof. Gautam Barua, Professor – Department of Civil Engineering, IIT Guwahati. A total of 51 participants including UG students, PG students, faculty members of the department including Prof. Manoranjan Kalita, Director – ADBUSOT, attended the session.

Prof. Gautam Barua started his lecture elucidating the significance of Applied Mathematics in the various domains of engineering. The lecture was highly stimulating and inspired the students to look at mathematics with a new perception. He also engaged the students in a question-and-answer session. The energetic participation of the students during the session itself showed the success of the programme. The programme concluded with a vote of thanks by Mr. Subhrangshu Purkayastha, Assistant Professor, Department of Civil Engineering who coordinated the programme with Mr. Supran Chakravarty.

### Invited Talk – Department of Botany

As a part of the MoU signed between Assam Don Bosco University and ICAR-ATARI, Zone VI, Kahikuchi, the Department of Botany organized an invited talk on “Agri-startups: Innovation and Ecosystem Special focus on Nutraceuticals” on 28th October 2024.

The talk was delivered by Dr. Kadirvel G., Director, ICAR-ATARI, Zone VI, Kahikuchi, Guwahati Assam, a renowned Animal Scientist and expert in the field of agriculture and startups. The talk shed light on the innovative solutions, planning, monitoring, reviewing, and evaluating of Agriculture based startups with a focus on North East Region of India. Detail discussion and deliberation was on the opportunities and scopes of startups in nutraceuticals and its funding avenues. The speaker highlighted successful case studies of agri-startups making a significant impact in the sector and emphasized the importance of farmer engagement and training in adopting new technologies and practices. A total of 110 participants were present including students and faculty members.



### Field Visit to Water Treatment Plant

A study tour was organized by Department of Civil Engineering on 19th November 2024 to the Water Treatment Plant at IIT Guwahati. 39 students accompanied by Dr Girija.T.R, Associate Professor and Head, Department of Civil Engineering, and Mr Kankan Mani Das, Laboratory Assistant Department of Civil Engineering visited the site.

The primary objective of the visit was to provide V Semester students with a practical exposure to the various stages involved in water treatment. The aim was to familiarize the students with the technologies and processes used for purifying water to meet the required standards for consumption. The visit was designed to give students a deeper understanding of the theoretical concepts they have learned in the classroom, allowing them to witness the processes in action at a real-world water treatment facility.



During the visit, students were introduced to various stages of water treatment at the IIT Guwahati Water Treatment Plant. They observed the pre-sedimentation tank, where large particles are removed from raw water, followed by the sedimentation tank for further particle settling. The aeration process, which adds oxygen to improve water quality, was demonstrated, along with the clariflocculator, where chemicals like Alum are added to coagulate impurities. Students also learned about Alum dosage for effective coagulation, and the functioning of rapid sand filters for fine particle removal. The backwashing process, essential for maintaining filter efficiency, was explained, and the visit concluded with an overview of chlorination, the final disinfection step before water is made safe for consumption.

## Sudhakantha Divas

Sudhakantha Divas was celebrated at the Azara campus of Assam Don Bosco University on 5 November 2024 to pay tribute to the legendary bard and iconic figure, Bharat Ratna Dr. Bhupen Hazarika, for his profound contributions in the field of music, literature and cultural heritage of Assam and India. A special morning assembly was organized by the Department of Humanities and Social Sciences in collaboration with the Music and Singing Club of the campus to honour the life and legacy of Dr. Hazarika. The programme showcased an array of captivating performances by students – dance, singing, recitation and presentation – to commemorate the thirteenth death anniversary of Dr. Bhupen Hazarika, the multi-talented genius. An impressive presentation on the life and contributions of the remarkable artist and great visionary was given by Upangshu Pratim Sarmah, a first year student of Computer Science Engineering Department. The programme ended with inspiring words by Prof. Manoranjan Kalita, Director, School of Technology and Bhupendra Sangeet presentation by faculty and students of Azara campus.



## Lachit Divas Celebration



The Azara campus of Assam Don Bosco University proudly celebrated Lachit Divas on 20 November 2024 honouring the legendary Assamese hero, Lachit Borphukan. The programme was jointly organized by the Department of Humanities and Social Sciences, School of Technology and the Music and Singing Club of Azara Campus. The brief programme commenced with the lighting of the ceremonial lamp by Prof. Manoranjan Kalita, Director, School of Technology. This was followed by garlanding of Lachit Borphukan's portrait by Rev. Fr. Joseph Nellanatt, the Pro-Vice Chancellor of the university. The Heads of the Department and Student Coordinators then paid floral tributes, showing respect and gratitude to the legendary hero. An insightful presentation was made

by a student group highlighting bravery and leadership of Lachit Borphukan. The cultural segment featured a mesmerizing solo singing performance by a talented student, Deepshikha Choudhury, from Computer Science Engineering Department. The celebration concluded with a chorus performance by faculty members and students, which filled the quadrangle with patriotic fervour.

## Plantation Drive

On 18 October 2024, the Department of Botany, in partnership with the Green Chapter Foundation, conducted a plantation drive at Tapesia Campus. This initiative aimed to promote environmental awareness and contribute to the greenery of the campus.

The formal session of the event commenced with a welcome address by the Head of the Department of Botany, who emphasized the importance of plantation drives in combating climate change and enhancing biodiversity. Two esteemed guests from the Green Chapter Foundation shared their insights on environmental conservation and the critical role of trees in sustaining ecosystems. Fr (Dr) Jose Paley, Vice Chancellor, highlighted the university's commitment to environmental sustainability and encouraged students to take active roles in conservation efforts.



Following the formal session, participants proceeded to the designated site in the campus, where students and guests col-



laboratively planted various saplings including a variety of fruit trees, which were selected for their ecological benefits and contribution to local biodiversity. The activity fostered teamwork and a shared commitment to environmental stewardship.

### Technical Field Visit of Gauripur Intersection

The Department of Civil Engineering organized a Technical Field Visit for the students of 7th Semester BTech to Gauripur Intersection on 22nd November 2024.

The purpose of the visit was to provide students with first-hand exposure to the design, construction, and management processes of a trumpet interchange. This site visit aimed to enhance their practical knowledge and bridge the gap between academic concepts and real-world engineering applications.

Dr. Santanu Pathak, Assistant Engineer, Assam PWD Roads, welcomed the students and provided an overview of the project, its significance, and the challenges faced during construction. He emphasized the interchange's role in improving traffic flow and reducing congestion at the Gauripur intersection. Mr. Hasin Akhtar, Bridge Engineer, explained the geometric design of the trumpet interchange, highlighting the alignment and grade separation techniques. Mr. Rahul Kumar detailed the materials and methods used in the bridge construction, including prestressed concrete girders, pile foundations, and deck slab construction. The team leader, Mr. Ashok Pattnaik, discussed the safety protocols implemented to ensure the safety of workers and commuters during the construction phase. He also explained traffic diversion planning during different stages of the project.

Students actively engaged with the engineers, raising questions about the interchange's design, cost estimation, environmental impact, and long-term maintenance.



### Industrial Visit to IASST

On 7 November 2024, the Department of Computer Applications organized an industrial visit to the Institute of Advanced Study in Science and Technology (IASST), Guwahati for the Master of Computer Applications (MCA) students.

This visit aimed to provide students with practical insights into advanced research methodologies and applications in science and technology, complementing their theoretical knowledge gained in the classroom. The institute focuses on interdisciplinary research and has made significant advancements in areas such as biotechnology, environmental science, and materials science. The visit was organized to expose students to the cutting-edge research being conducted at IASST and to inspire them towards innovative thinking in their future careers. The primary objective of the industrial visit was to familiarize students with ongoing research projects and methodologies at IASST, to provide opportunities for students to interact with leading researchers and scientists and to inform students about potential career paths in research and development. Students who participated in the visit were overwhelmingly positive in their feedback. Many expressed appreciations for the opportunity to see real-world applications of their studies.



The industrial visit to IASST was a significant educational experience for MCA students at Assam Don Bosco University. It not only enhanced their understanding of advanced scientific research but also motivated them to consider careers in this field. Department of Computer Applications extends its gratitude to IASST for hosting the visit and providing invaluable insights into the world of scientific research. Coordinated by Dr. Sonia Sarmah and Dr. Gypsy Nandi from the Department of Computer Applications, Assam Don Bosco University, the event targeted MCA 3rd, semester students, offering valuable insights for industrial research strategies.

## MoU with WebX

The Department of Computer Applications signed a Memorandum of Understanding (MoU) with WebX Technologies Pvt. Ltd., Guwahati on 26th November 2024. The MoU is set to enhance student employability by providing internships and practical industry exposure. It aims to conduct workshops and training sessions on emerging technologies for both students and faculty, ensuring that academic programs are aligned with current industry trends through expert inputs. The collaboration will also facilitate joint research and innovation projects to address real-world challenges, fostering ongoing partnerships between academia and industry for knowledge sharing and growth. Coordinated by Dr. Gypsy Nandi and Dr. Sarat Kumar Chettri, this initiative is expected to significantly improve learning outcomes, drive innovation, and create better career opportunities for all involved.



## Invited Talk: Mastering Interview Preparation



On 12 September 2024, the Department of Computer Applications hosted an invited talk titled "Mastering Interview Preparation: Essential Dos and Don'ts Before, During, and After the Interview." The session was conducted by Ms. Seemona Mahanta, a seasoned professional with extensive experience in career counselling and interview preparation. The talk aimed to equip students with practical strategies to enhance their interview skills and improve their chances of securing job placements. The objectives of the invited talk were to offer students a comprehensive understanding of effective interview preparation techniques, to discuss essential dos and don'ts that can significantly impact interview performance and to empower students with the knowledge

and skills needed to approach interviews with confidence. Resource person Ms. Seemona Mahanta, Personality Transformation Coach, addressed several crucial aspects of interview preparation, categorized into three phases: before, during, and after the interview. Coordinated by Dr. Gypsy Nandi and Dr. Abhijit Bora, the department looks forward to organizing more such informative sessions in the future to further support student development in their career journeys.

## Alumni Talk – Dept of Computer Applications

On 13th November 2024, the Department of Computer Applications organized an insightful alumni talk delivered by Md. Sakir Ahmed, a distinguished alumnus from the MCA 2024 batch. The session focused on research methodology, deep learning, and computer vision-based project work, providing a blend of academic guidance and practical insights. Md. Sakir Ahmed emphasized the importance of a systematic approach to research and explained how effective methodologies contribute to the success of projects. He delved into the fundamentals of deep learning, highlighting its transformative potential across various industries, and provided an in-depth exploration of computer vision with examples of its applications in healthcare, security, and autonomous systems. He showcased case studies of computer vision-based projects, addressing implementation challenges and solutions. The talk inspired students of Department of Computer Applications to adopt structured research approaches and explore advanced technologies for innovation. The event concluded with an interactive Question & Answer session, leaving participants motivated and better equipped to pursue academic and professional excellence.





## Talk on Practice Research

Prof Janet Carter Anand, University of Eastern Finland delivered a Talk on Practice Research for MSW 1st semester students on 5th November 2024. The talk was organized by the Department of Social Work and Center for Development Studies and Initiatives, Assam Don Bosco University.

Practice research is a collaborative approach that bridges the gap between academic research and practical application, particularly within social work and healthcare. It emphasizes partnerships among researchers, practitioners, service users, and communities to develop, evaluate, and improve interventions. By focusing on real-world applicability, practice research supports the evolution of services to meet changing social needs effectively.



Prof Janet shared about the research work that she conducted on “Evidencing the Effectiveness of Health Social Work”. The study titled “Evidencing the Effectiveness of Health Social Work” aims to evaluate the role, impact, and potential of health social work in Finland. This project, led by Professor Janet Carter Anand from the University of Eastern Finland and her collaborators, addresses the effectiveness of health social work within Finland’s public health framework. Given Finland’s demographic shifts and changes in social policy, the study seeks to establish a more substantial research foundation for the profession.

Finland, a nation of 5.5 million, operates a social-democratic welfare model within its health and social care system. Recent social and health reforms transferred responsibility for these services from municipalities to 21 newly created wellbeing service counties, aiming to enhance equality and integration of health and social services.

Health social workers in Finland are primarily employed within the public health sector, providing support through assessments, counseling, and psychosocial support, often within hospitals and outpatient clinics. This research investigates how their work contributes to patient outcomes and broader healthcare effectiveness.

## Industrial Automation Specialist Training

The University’s Skill Development Center in association with the Department of Electronics & Communication Engineering (ECE) and the Department of Electrical and Electronics Engineering (EEE) organized Industrial Automation Specialist Training Programme during 22nd July 2024 to 25th October 2024.

was an intensive skill development program designed to enhance technical knowledge and practical expertise in industrial automation. This program targeted Defence personnel from the Army, Navy, and Air Force, with a total of 27 participants successfully completing the training. The training was conducted over a span of three months, covering advanced concepts and practical applications in automation and control systems. The resource persons for this training programmes were: Dr. Bikramjit Goswami, Dr. Gitu Das, Dr. Jyoti Kumar Barman, Dr. Samar Jyoti Saikia, Mr. Mriganka Gogoi and Dr. Kaustav Bhattacharya



## Swachhata hi Sewa

On 17 September 2024, the NSS Unit, Department of Social Work in collaboration with SRF Foundation organized a SHW Campaign at Kapalakta LP School. This Swachhata Hi Seva (SHS) campaign event aimed at raising awareness about cleanliness and environmental sustainability among school children. The campaign saw enthusiastic participation from NSS volunteers, school children, teaching, and non-teaching staffs, as they engaged in activities that promoted a clean and hygienic environment.

The event began with an awareness session on Swachhata Hi Seva, delivered by Glaracia Nongsli, an NSS volunteer. The session emphasized the importance of maintaining cleanliness in both public and private spaces and outlined the objectives of the Swachh Bharat Abhiyan initiative. Glaracia spoke about the environmental and health benefits of proper waste management and inspired participants to adopt cleanliness as a daily habit, ensuring their active contribution to the national cleanliness movement.

Following the awareness session, the volunteers, along with staff members, conducted a cleanliness drive that focused on the approach road to the school and the school campus. The volunteers were divided into teams and assigned specific areas to clean. They actively collected litter and waste, ensuring proper disposal. The activity involved cleaning of the school campus and surrounding areas, including classrooms, playgrounds, and common spaces, the approach road leading to the school, ensuring a hygienic environment for students and visitors alike.



## Workshop on Communication for Development- Street Play

The Department of Social Work organized a Workshop on Communication for Development – Street Play on 28th September 2024 with an aim to introduce street play to the students as an effective tool in addressing social issues and promoting social change.

The workshop started at 10:00 a.m with a session on the concept of Street Play by Dr. Lojita Khaidem who explained the concept of street plays, outlining their purpose, essential elements, and the ways in which a message can be communicated through this form of performance. She explained that the theme of a street play can focus on any social issue aimed at promoting change in society.



Dr. Khaidem also mentioned that street plays can be performed in various public spaces such as college and university campuses, railway stations, street corners, marketplaces, and slums, where large groups of people, including students, teachers, workers, and the general public, are likely to be present. These settings provide an opportunity to spread social messages and encourage societal change.

Dr. Khaidem emphasized that in a street play, all performers should form a circle to ensure that the audience can view the performance from every direction. She also pointed out that, unlike traditional theatre, street plays do not use microphones, making the performers' vocal projection and physical presence crucial. Furthermore, Dr. Khaidem discussed the collaborative nature of street plays, describing them as a collective art form. This means that street plays require teamwork, and it is important for all participants to listen to and respect each other's ideas, especially when selecting the theme of the play.

To illustrate the concept of street plays, Dr. Khaidem shared some photographs of past performances by students. She also stressed that the primary focus of a street play is the audience, and performers must know how to draw people in and keep them engaged. Dr. Khaidem then shared the history of street plays, explaining that since 1943, the Indian People's Theatre Association has used street plays as a tool for communication, mobilization, and education, especially during the British colonial period. These plays were used to address social and political issues, raising awareness and encouraging action among the Indian public.



## Communication for Development (C4D) - Grassroot Comics

A Workshop on Communication for Development – Grassroot Comics was organized by the Department of Social Work in collaboration with NSS Unit, Assam Don Bosco University, Tapesia Campus on 28th September 2024.

The workshop began with an introductory speech by Dr. Bibharani Swargiary, a faculty member of Assam Don Bosco University (ADBU). Dr. Swargiary introduced Ms. Alinisha Boro, Coordinator of the Center for Development Studies and Initiatives (CDSI) at ADBU. She provided an overview of Communication for Development (C4D) and set the context for the day's activities. The session was structured around a series of activities aimed at equipping participants with the skills needed to create grassroots comics, a unique and accessible form of storytelling.



Grassroot Comics are a powerful form of visual storytelling that enables individuals at the community level to express their experiences, concerns, and perspectives. These comics focus on amplifying local voices and addressing critical social issues, such as health, sanitation, gender equality, and social justice. Grassroot Comics use simple materials like paper, pens, and markers, making them an affordable medium for community communication. The primary goal is to empower marginalized communities to advocate for change and raise awareness, even among audiences with varying levels of literacy or artistic skill.

Creating a comic involves a balance between visual storytelling and narrative coherence. Participants learned how to structure a comic by first conceptualizing the storyline, identifying characters, themes, and events. The story is broken down into panels, each representing a specific moment in the narrative. Attention is given to the relationship between text and images, where dialogue, captions, and sound effects complement the artwork without overcrowding the space. The use of white space between panels helps guide the reader's eye and maintains clarity.

## Workshop on Data Collection - Research Tools Preparation

The Department of Social Work conducted a Workshop on Data Collection – Research Tools Preparation on 15th November 2024. The workshop aimed to provide students social workers with a comprehensive understanding of developing research tools essential for data collection and analysis in social sciences. The session focused on creating socio-demographic profiles, designing socio-economic surveys, and exploring various tools for qualitative and quantitative data collection.

The session emphasized the importance of collecting demographic details such as age, gender, education, occupation, and family composition. Participants were guided on structuring profiles to capture accurate and relevant data that aligns with the objectives of the study.



A hands-on activity enabled participants to design socio-economic questionnaires. Key areas covered included:

- Identifying variables (e.g., income, employment, housing, education).
- Framing clear, concise, and unbiased questions.
- Categorizing questions into qualitative and quantitative types.

Participants worked individually to create interview samples tailored to specific research objectives. They applied concepts learned in earlier sessions to align questions with the study's goals. Also, the participants prepared research tools based on their selected study themes. The activity encouraged independent thinking and creativity, ensuring practical understanding of the methodologies. The workshop was a success, equipping participants with the necessary skills and knowledge for conducting effective research. The practical activities fostered individual learning and enhanced confidence in designing and implementing research tools.



*As we celebrate the season of peace, love and sacrifice.  
May you too become an instrument of love and peace.  
Wishing you and your dear ones a blessed Christmas  
And a New Year filled with love and joy*

*Merry Christmas*

*&*

*Happy New Year*

- Don Bosco University Family