



ASSAM DON BOSCO UNIVERSITY

# ANNUAL REPORT

2021-2022



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# Foreword by the Vice Chancellor

The journey of Don Bosco University began on 29th March 2008 when the Government of Assam favoured 'Don Bosco Society Azara' with a 'Letter of Intent' to establish the first University in the private sector in Assam. That journey took a decisive turn on 11th August 2008 when the first batch of engineering aspirants stepped into the campus at Azara. Ever since it has been a pilgrim's path that has taken the University to where it is today... journeying on in hope!

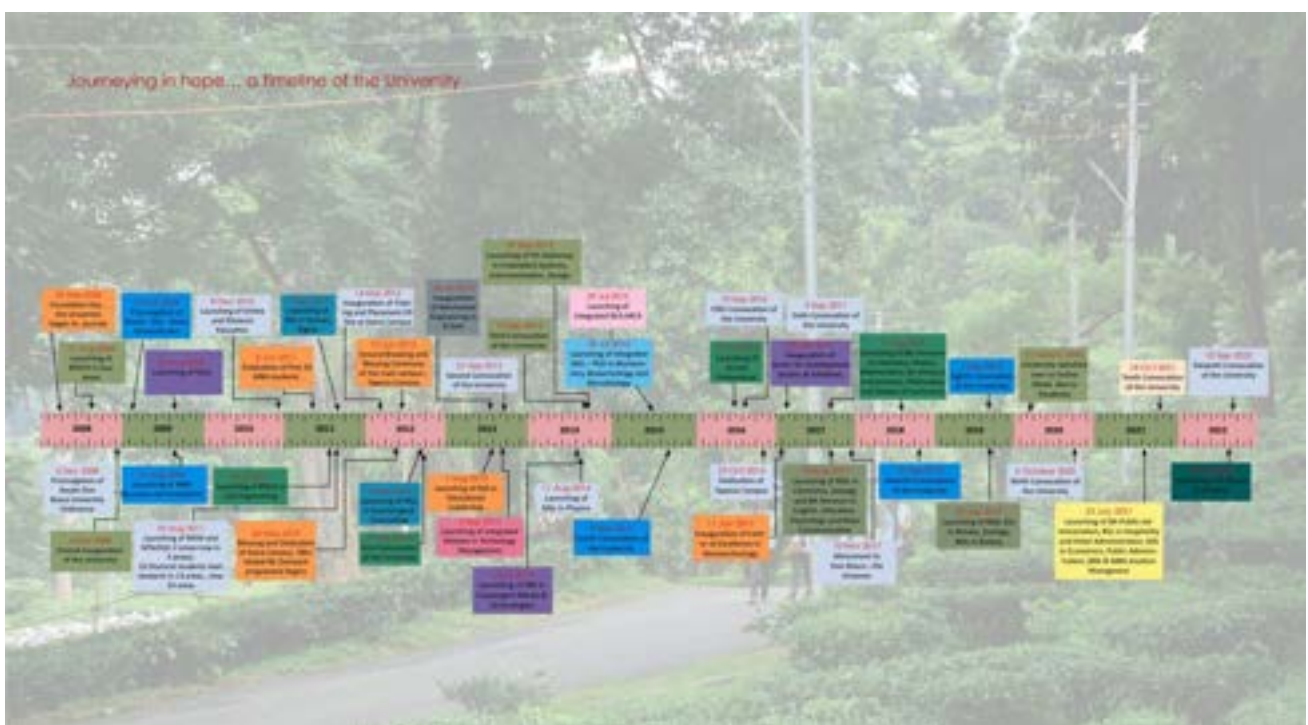
The turns, the twists, the meanderings, the pains and aches as well as the joys and miracles (small and big) on the way are far too many to count... Nonetheless, the vision has not dimmed; wider horizons keep beckoning all the time!

That we have come this far, we owe it to the generosity of the many friends, organizations, foundations and collaborators who saw this dream take shape and took the plunge along with us – friends who walked with us, shared our burdens, propped us up when our spirits sank, and rejoiced with us at every tiny step that took us forward... We remember them gratefully today.

To say that this journey is replete with God's blessings would be a gross understatement... To tell you that we have seen/felt His/hers footprints along the way – that would be closer to the truth...

Our strength and our hallmark continue to be a culture that is uniquely our own, that energises us in all that we do, and knit us together into one educative community... the Don Bosco Way that is traditional and transformative!

The timeline below gives you glimpses into the milestones on the way...



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Albeit for a short time, just for the month of March only in 2021, we were able to shake ourselves free from the manacles of the pandemic, and hold classes on campus after two long years. The joy in the air was palpable – it felt good to be able to breathe free once again, to mix freely with one another, to hear the shouts of joy and banter as friends came together again.

In August 2021, though still under lockdown, we started the yearlong celebration of the much awaited 75th Anniversary of our Independence, Azad ki Amrit Mahotsav. This year of celebrations has had the singular objective of making us feel good about ourselves, feel good about our countrymen, feel good about our nation. It has been nothing less than a rediscovery of our identity and our place in the world.

Ever since the campus reopened, and in event after event, we reaffirmed our commitment to the values that our country holds dear, that we hold dear and close to our hearts. It does feel good to be an Indian today. It does feel good to be a citizen of this magnificent nation, with an enviable history of culture, wisdom, and traditions, ancient and new that makes us stand apart in the comity of nations.

In keeping with this outlook and pride in our nation and its values, there is a visible and wonderful diversity and inclusivity that we nurture and foster here at Don Bosco. Our graduates, our faculty, our staff bear the best testimony to this reality that meets any one's gaze: we are a very diverse group of students, staff and faculty that live and breathe as one. Here is the living, vibrant, breathing India of our dreams – a beacon of hope in a fragmented world where race, nationality, caste, religion and language tend to define you and segregate you. We are proud of this heritage here at Don Bosco!

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A Brief Report on the University... the year that has been...

Without going into too many details, let me update you on some of the significant developments during the year.

In the field of academics...

The University launched several new programmes on campus: a) Bachelors and Masters in Public Administration b) Bachelors and Diploma in Pharmacy Studies, c) Bachelor's in Hospitality and Hotel Administration, and, d) a Course on 'Working with Diversity' together with the University of Eastern Finland, Frankfurt University of Applied Sciences and Fu Jen University of Taiwan. Our Language Courses in Chinese, French and German have been going on very successfully.

Under DBU Global, our distance education wing, we have 13 Programmes going on over the last decade. Some fresh approvals and renewals are pending as of now.

As in previous years, this year too saw incredible activity at all campuses of the University with an array of programmes (workshops, internships, conferences) organized by the various departments - Summer schools, summer workshops, crash courses, Internships – these have come to stay as a regular feature of life at the University.

Last month we hosted a Fulbright Scholar in Social Work from Minnesota (USA) and another from the University of Pittsburgh. Next month we have team of faculty and students from Germany for an interactive

production with our students of Mass Communication. Later, this year we have an eminent Professor from Germany (Frankfurt) for a three-month visit to our University to initiate joint research projects with our faculty and students of Social Work. We have a number of very active and productive projects with UNICEF, spread over all North-Eastern States in the area of behavioural change relating to alcoholism, drug abuse and tobacco abuse. Towards the end of this year, we are expecting a team of neuro-psychologists from Italy to spend time with our Psychology students.

We have been regularly publishing the following seven journals that the University started in the earlier years:

| S/N | Journal title  | Editors  |
|-----|--|--|
| 1   | Journal of Northeast Indian Cultures                           | Fr. Dr. Joy Kachappilly<br>HoD, Department of Philosophy                       |
| 2   | ADBU Journal of Engineering Technology (AJET)                  | Prof. Shakuntala Laskar<br>Professor, Department of Electrical and Electronics |
| 3   | The Journal of Development Practice                            | Prof. Riju Sharma<br>Director, School of Humanities and Social Sciences        |
| 4   | Journal of Applied and Fundamental Sciences                    | Prof. Tarini Kumar Dutta<br>Professor, Department of Mathematics               |
| 5   | Journal of Management in Practice                              | Mr. Chandan Dutta<br>Assistant Professor, Department of Management             |
| 6   | ADBU Journal of Electrical and Electronics Engineering (AJEEE) | Prof. Shakuntala Laskar<br>Professor, Department of Electrical and Electronics |

In the area of research...

The buzz word today is pervasiveness. The research culture has struck deep roots within the academic community of the University. 60.45% (133 out of 220) of the faculty have completed their doctorate, another 65 (29.55%) are actively pursuing their doctoral research in a variety of Indian and foreign universities. That is an enviable record for even-well established universities.

The tempo has picked up substantially in the holding of seminars, conferences and workshops, both physically in-campus and online, 64 in a row this year alone. Our Faculty-Student ratio is a very healthy 1:13.5, much better than most of the old and established universities and well above the requirements of the statutory bodies.

It is also significant that the number of papers published in journals of repute comes to a healthy 1.8 per member of the faculty. Most of these arise out of their areas of research work, Doctoral Research or Funded projects. It is also gratifying to note that our undergraduate students have got into the act with several of their papers getting published in journals and conference proceedings.

It is also a matter of pride that we have today 409 research scholars, pursuing their doctoral studies across 26 disciplines – 18 scholars are being awarded the Doctorate today in addition to 103 awarded at earlier convocations.

In the area of infrastructure development...

A lot of developments have taken place at the Tapesia Campus – a new Academic Block with a built-up area of 1.5 lakh square feet, a new water body spanning 5 acres, over 5000 trees and saplings planted... Plans are afoot for the construction of two more hostels, and 30 Staff Quarters.

The campus at Tapesia, apart from providing us with an enviable location for academic pursuits, is slowly developing into a nerve centre for the development of the entire region, especially the 42 villages that surround the campus. It is an ideal location for the packed extension and social commitment programmes of the University. It's in our plans to ensure that every graduate of our University will have committed themselves to several months of meaningful social work during the course of their study at the University. It is gratifying to note that the concept of 'Service Learning' that we initiated three years ago is now a nationally adopted concept embraced by the UGC for all colleges and universities.

Speaking of campus development, we are proud of our plantations (numbering over 25,000 trees over the years – rubber, agar, coconut, cashew, neem, cocoa). In the near future, apart from becoming alternative sources of income, they will also turn into demonstration farms and seed production centres for the National Boards, research avenues for the university into pest resistance, hybridization, and mass multiplication through tissue-culture, and an excellent training platform for our social outreach programmes in the villages. Our latest feature is an Herbal Garden, spread over 2 hectares, supported by BSRB.

Our water bodies, all seven of them, are brimming over with fish, including the anti-malarial variety that feed on mosquito larvae. Water harvesting is a given on the campus, with all the fresh water being corralled into the fresh water lakes.

In the area of quality assurance...

We were awarded Grade 'A' by the National Assessment and Accreditation Council, putting us among the top institutions of higher education in our country.

Our Internal Quality Assurance Cell (IQAC) has been an active catalyst in setting precise objectives to be met, monitoring and documenting subsequent performance, and always keeping us on our toes and shifting the goal posts all the time. The NAAC Peer Team that visited the University categorically stated that the performance of IQAC in Don Bosco University is unparalleled in the whole country.

In the post-accreditation period, our Internal Quality Assurance Cell, IQAC, is channelizing the efforts and measures of the university towards excellence in research and setting in place a robust series of internal quality audits. The IQAC has been working actively as the think tank of the university, taking on the dual roles of initiator and monitor of all quality enhancement works of the university.

Major thrust of the IQAC in recent years has been in implementing the pedagogy of outcome based education and research throughout the university. Members of the IQAC function like the hubs in a spider's web that reaches out to spread this message and insistence right across every process in the University.

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## Conclusion...

To conclude, let me share with you a few of the core strengths that has set our University on very strong foundations, strengths that the NAAC Peer Team saw as our unique features:

1. We have in place a detailed concept paper that pretty much captured the vision of the university and laid out the trajectory of its growth plan... (Several universities have taken our concept paper as a working document to inspire their own visioning process).
2. In tandem with our concept paper, we have developed over the years a Strategic Development Plan of the University that keeps guiding us as we grow and develop.
3. We have a governance structure that ensures checks and balances and speedy implementation of all decision. The autonomy that the Government of Assam has blessed us with has been a key factor in ensuring a speedy decision making process with a scrupulous adherence to norms.
4. We have a well-oiled financial administration mechanism in place to ensure accountability and transparency with steady growth... The struggle remains, however, to find adequate resources to ensure growth with sustainability.
5. We have in place a draft 'sustainability plan' for the university that takes seriously issues of financial stability and viability of the university for years to come. It is also a handy tool when scouting for funds for the university.
6. We have put in place a Human Resource Management system as a tool to ensure 'a shared vision, a cohesive team and an engaging work culture'... The word is out there today that Don Bosco University is a good place to study, to work and to grow. There are several institutions that have evinced keen interest in following our model.
7. We meticulously plan and implement personal and professional development programmes for our faculty and students... Personal and professional growth are a given in Don Bosco University.

Taken together, these strengths have contributed in ample measure towards the creation of a culture in the University that is uniquely our own, that energises us in all that we do, and knits us together into one educative community... THAT is our strength and our hallmark!!

For all of these... and for much more, in the very first place, we acknowledge the grace of God, the providence of God! It is our faith in this loving Providence that has sustained us for so long...

It is also the generosity of the many friends, organizations, foundations and collaborators that saw this dream take shape – friends who walked with us, shared our burdens, propped us up when our spirits sank, and rejoiced with us at every tiny step that took us forward... We remember them gratefully today. May God bless them generously!

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One final thought as I conclude this Foreword to our Annual Report 2021-2022...

Our theme for this year is on 'resilience'... In the wake of the pandemic that literally stole two years or more from our lives, we have been resilient, and cultivating this new found 'resilience' is the key to hope and to thrive once again... To me, resilience involves certain principles; and these are the principles we live by here at the University.

- An abiding sense of Gratitude for all that has been and will be – a recognition that we are richly blessed
- A deep felt Compassion for everyone, especially the less fortunate – our 'Service Learning Project' is all about that
- An Acceptance of the unfolding reality in the world around us – a key component of cultivating resilience
- A never-ending Search for Meaning – this is the lifelong quest that ties everything together
- A cultivated capacity for Forgiveness – an imperative for true peace of mind
- A reliance on a Power greater than our own - God - on whom we can lean, on whom we can pin our dreams and aspirations, our joys and sorrows... and our frustrations too.

Carpe Diem! Seize the Day! ... and may God keep blessing our University and everyone of us every day and in every way!

Fr Stephen Mavely  
Rector & Vice Chancellor

# About Assam Don Bosco University

## Introduction

The Assam Don Bosco University is the first University in the English speaking world of the worldwide family of the renowned Don Bosco Society present across 134 countries in service of the educational and developmental needs of 15 million young people. The University was set up by the Assam Don Bosco University Act 2009 under the State Private Universities Act of the Government of Assam, and was duly notified vide Government Notification No. LGL 149/2008/30 dated 12th February 2009. The University is authorized to award and grant degrees under the University Grants Commission Act of 1956, India, accredited by National Assessment and Accreditation Council, India and is approved by the Distance Education Council and the All India Council for Technical Education. The University is also a member of the Commonwealth Association of Universities (ACU) based at London since 18th October 2011, and of the International Association of Universities (IAU) based at Paris since 29th November 2011, and of the Association of Don Bosco Institutions of Higher Education (IUS) based at Rome since 2008.

The University has been set up as a response to the felt educational needs of the people of North-East India and offers relevant study programmes with a focus on research and social commitment through the Schools of Technology, Humanities and Social Sciences, Life Sciences, Applied Sciences, Commerce and Management and School of Professional Studies. The University Centre for Online and Distance Education (CODE), called DBU Global, offers a variety of study programmes in Management and Information Technology. The University has also entered into a number of collaborative agreements with universities from around the world for student and staff exchange programmes and for joint research studies. Don Bosco University has evolved for itself a clear-cut vision that defines its rationale, objectives and approach to excel in teaching, formation of individuals by offering support, making students ready for quality placements at the three vibrant campuses at Tapesia, Azara and Kharguli. A sustained alumni association is established to carry forward lifelong learning of the students by partnership of the students with their alma mater.

## Vision and Mission of the University

Our vision, mission and values statement, our graduate attributes, and our achievements encapsulate what we stand for as a University and what we offer to students, staff and the wider community. We are committed to providing an education that cultivates a spirit of creativity and initiative and equips tomorrow's leaders and innovators; engaging community; maintaining diversity and inclusion among our students and staff; and providing equitable access to education.

### Vision .....

"To mould intellectually competent, morally upright, socially committed and spiritually inspired persons at the service of India and the world of today and tomorrow, by imparting holistic and personalized education."

## Mission .....

This university will be a centre for culture, knowledge, research, intellectual ferment; for critical thinking and analysis of whatever shapes and impacts human life; that influences thinking, planning and policy making on vital aspects of social life: religion, culture, society, politics, governance, education, health care; and engages in dialogues across the board - THAT is our role.

This university will strive to make professional and higher education accessible to the weaker sections of society - THAT is our solemn commitment.

This university will spare no effort to ensure that our graduates become dependable and true human leaders with a strong sense of commitment to the poor, the disadvantaged and the needy-THAT is the goal embedded in our vision.

This university will strive for excellence in every process and undertaking; and, among many other things, it will specialize in research with social relevance - THAT is our approach.

Guided by this vision and leveraging its century-old expertise in education in India and abroad, Don Bosco University is envisaged to be a Centre of excellence in study and research focusing upon the following:

- Providing easier access to higher education for the under-privileged
- Harmonizing technical excellence with human and religious values
- Employment-oriented courses in emerging areas of contemporary technology and service
- 'Teacher Education' as a privileged area of interest to accelerate the pace, reach and quality of education
- Impetus to research initiatives with practical and social relevance
- Providing a forum for debate and research on key human issues like religion & culture, peace & justice
- Contributing to the socio-economic development of North-East India
- Boosting international linkages and collaboration in university education

## Schools

The Assam Don Bosco University started with four academic programmes of Engineering and Technology in 2008 and currently the University offers 19 graduate programmes, 22 postgraduate programmes and doctoral studies in 24 areas belonging to, the School of Technology, the School of Humanities and Social Sciences, the School of Commerce and Management, the School of Fundamental and Applied Sciences and the School of Life Sciences. To encompass the larger scope and vision of the University towards its commitment of building and operating a healthy and self-renewing, vibrant campus community with clear cut goals and priorities in the areas of education, clean energy, nature and eco systems, cutting-edge research and teaching in the latest technologies to tackle real issues of the region.

# Highlights of 2021-2022: A Diary of Events

## Don Bosco University Featured in World Rankings by TIMES, 26 April 2021

Don Bosco University, Assam has been ranked 301-400 in the recently released Impact Rankings by the TIMES Higher Education World University Rankings, a vital resource that provides the definitive list of the world's best universities. The University is also ranked #53 in the world under UN-SDG 15.



There are 49 Higher Educational Institutions in India that made it to the list, and Don Bosco University ranked the highest among

other Institutions from North East India and holds 6th position in India with University of Calcutta. Other higher Institutions in North East India, featured in this ranking includes Mizoram University (a central university) being ranked 601-800, and NIT Silchar being ranked 801-1000.

Commenting on the TIMES Ranking, the University's founding Vice Chancellor, Fr. (Dr) Stephen Mavelly said, "Don Bosco University's highest score is under UN SDG 15 with a score of 72.9 out of 100 which is 'Life on Land' where we are ranked #53 in the world and it is a testament of the eco-friendly green campus that the University prides itself'.

The Times Higher Education Impact Rankings are the only global performance tables that assess universities against the United Nations' Sustainable Development Goals (SDGs). The ranking uses carefully calibrated indicators to provide comprehensive and balanced comparison across four broad areas: research, stewardship, outreach and teaching. The 2021 Impact Rankings is the third edition and the overall ranking includes 1,115 universities from 94 countries/regions.

## World Day for Cultural Diversity for Dialogue and Development, 21 May 2021

The World Day for Cultural Diversity for Dialogue and Development was celebrated at the university on 21 May 2021. It was an occasion to promote culture and highlight the significance of its diversity as an agent of inclusion and positive change. This day was also an opportunity to celebrate culture's manifold forms, from the tangible and intangible, to creative industries, to the diversity of cultural expressions, and to reflect on how these contribute to dialogue, mutual



understanding, and the social, environmental and economic vectors of sustainable development. It was reported that *“The celebration is not only the richness of the world’s cultures, but also the essential role of intercultural dialogue for achieving peace and sustainable development.”*

To mark this day, the students of department of Social Work compiled a short video under the supervision of Dr. Lukose P Jacob, HoD, and Department of Social Work. The video can be accessed here <https://youtu.be/VzfE6I48GRA>

## World Environment Day 2021, 5 June 2021

The United Nations Environment Programme (UNEP) declared 2021 year’s theme for World Environment Day as “Ecosystem Restoration”.

Assam Don Bosco University joined hands with the United Nations to restore our ecosystem through a “Remote Plantation Drive” organized by the Department of Zoology in collaboration with the EcoClub, Centre for Development Studies and Initiatives (CDSI), Unnat Bharat Abhiyan (UBA-ADBU



Unit), and the Swachhta Action Plan (SAP) Team. The event drew the attention of several participants, both young and old, who pledged to become #Generation Restoration through a plantation drive at their own homes. The participants captured their “planting moments” and uploaded these photographs on social media to spread awareness about the urgent need to restore our ecosystems and make peace with nature.

To make the event more meaningful, each seed, seedling and sapling was dedicated to the precious souls we have lost to Covid-19, to the ones who continue to fight against the disease and also to the Health Care Workers and all the Frontline Workers who continue to fight against this deadly disease for us. More pictures are available at <https://www.facebook.com/zoologyadbu/>

## Summer Field School on Mountain Ecosystems and Resource Management, Assam Don Bosco University Partnered with the Grassroots Institute, 19 September 2021

To build the capacities of future mountain leaders, Canada-based Mountain Partnership member **The Grassroots Institute** hosted a ten-day “Summer Field School on Mountain Ecosystems and Resource Management”. The virtual training programme was co-organized by 66 partner organizations from 22 countries, of which, Assam Don Bosco University was one.

The Summer Field School emphasized on mountain ecosystems within the contexts of sustainable development, natural resource management, and conservation governance. The programme aimed at equipping researchers, students, practitioners, and teachers with practical approaches, knowledge and skills for meeting the challenges of sustainable development and managing mountains’ natural resources globally.

The Summer Field School started on 19 September 2021 with a roundtable for mountains. Speakers included representatives of universities from around the world, the Mountain Partnership Secretariat, the Ramsar Convention on Wetlands Secretariat, the Secretariat of the Carpathian Convention, and the United Nations Environment Programme, among others. Their remarks covered a range of topics including climate change, freshwater, watershed management, transhumance, biodiversity and sustainable agriculture.

In total, over the nine days of the Summer Field School, 26 technical sessions were conducted, including 108 lectures by 97 experts from 36 countries along with 93 presentations by 95 delegate participants. About 400 participants from 69 countries attended the sessions. Two faculty members of ADBU Zoology Department, Prof. Saibal Sengupta and Dr. Simanta Kalita were resource persons for four sessions on - *Dangers to Mountain Wildlife, Issues of Mountain Sustainability, Research in Protected Areas and Challenges of Urbanization in Mountains*.

## **Tenth Convocation of the University, 18 October 2021**

The University conducted its Tenth Convocation on Monday, 18th October, 2021 online via Youtube and Facebook. In spite of the virtual mode, the ceremony was evocative of the experiences shared, values imbibed, knowledge gained and bonds of friendship formed for a lifetime on campus creating a truly memorable event for the graduating students.

This year, Degrees were conferred upon 1150 students of which 470 students received the bachelor's degrees in engineering and technology, basic sciences, commerce, management and humanities; 648 students received master's degrees in various branches of engineering, science, commerce and management. Doctoral Degrees were conferred on 27 scholars and PG diploma degrees were conferred on 5 students.



The Chancellor's Medal for outstanding contribution to campus life among the Postgraduate students was awarded to Jeremiah Jacob, Master of Social Work and the Vice Chancellor's Medal for outstanding contribution to campus life among the Graduate students was awarded to Nikita Das, Bachelor of Computer Applications.

## **NAAC Peer Team visits the University, 25-27 November 2021 Don Bosco University receives Grade 'A' from NAAC**

The National Assessment and Accreditation Council (NAAC) has given Don Bosco University Grade 'A' based on a thorough evaluation of the Self Study Report and an inspection by the NAAC Peer Team. The University becomes the first University in the private sector in Assam to have received an 'A' grade from NAAC.

The University submitted its Self-Study Report to NAAC in the month of March 2021 and the Peer Team led by Dr. BP Sanjay as the Chairperson, Dr. Ashok Kumar as Member Coordinator with Dr. Deepak Kedia, Dr. Panchanan Das and Dr. Lalhmasai Chuaungo as members visited the University on 25-27 November 2021. The team visited the three campuses of the University and all departments in the University during these three days. A cultural evening with a theme *“Hope, Healing, and Resilience in Our Times: A Cultural Symphony”* was showcased by the students on 25th November Evening at the Atrium of Academic Block II.



Apart from visiting various departments, the Peer Team also took time to take a tour of the main campus (Tapesia Campus) and appreciated the initiatives of the University in maintaining a green and eco-friendly campus with thousands of plantations, fresh water lakes and the campus layout itself which found a place in their report that said, *“The strategy focuses on reclamation of water resources, conservation of water bodies, creation of green spaces, and effective energy audits...”*

*... a deep sensitivity to the environment and ecology... and aesthetically designed campuses in sync with the natural terrain”*

The Peer Team also visited some villages around the campus where the University has been working together with the villagers with an aim to bring about social and economic developments through participative developmental programmes and projects in these villages and appreciated the enormous works done by the University in this area.

Highlighting this, the report read *... a strategic plan that has driven a results-based approach to bring about change and social transformation impacting communities and the environment in partnership with multiple stakeholders of community, government, industry and non-government organizations.* Appreciating the philosophy of the University that translates into action they also added *... an inherited Philosophy of service to humanity translated into the objectives and functioning of the university... Integration of ethics, gender and human values in its programs and the academics as a reflection of the vision of the University in promoting human values... Human values nurtured through the community services.*

## Visit of the Ambassador of Taiwan, 11 December 2021

His Excellency, the Ambassador of Taiwan Mr. Baushuan Ger, accompanied by a team of 5 members from the Embassy visited the University and interacted with the Mandarin language students at the University and observed the Test of Chinese as a Foreign Language (TOCFL) exam held on this day where 20 students gave the exam. Addressing the gathering, Mr. Ger spoke about the importance of having student



exchange programmes and working with Higher Education Institutes for this serves as a base for international cooperation in various fields. Assam Don Bosco University is the only institution in North East India that launched Taiwan Education Center in its campus with a full time Mandarin Teacher in collaboration with the Ministry of Education, Taiwan.

This partnership project between Taiwan’s Ministry of Education and ADBU aims to boost students’ language proficiency and cultural competence through the courses provided by a qualified language teacher from Taiwan. Bilateral exchanges in various fields are also expected to be strengthened through TEC.

The Taiwan Education Center at the University has strengthened the academic and cultural exchanges between India and Taiwan and an MOU was also signed by ADBU and Fu Jen Catholic University in Taiwan as a result of the initiative of the Center.

## Ranked Excellent In ARIIA 2021, 29 December 2021

In the latest ranking of ARIIA 2021, released by Dr. Subhas Sarkar, Hon’ble Union Minister of State for Education, Government of India on 29 December 2021, Assam Don Bosco University has been placed in the Band-Excellent group in the category ‘University – Private/Self-Financed’.



Band-Excellent is the second-best category next to the top 10 institutes placed in the Ranked category. Band Excellent is followed by Band-Performer, Band-Promising, and Band-Beginner. Assam Don Bosco University is the only institute from North-East India to be placed in the Band-Excellent group for the Category University: Private/Self-Financed. Atal Ranking of Institutions on Innovation Achievements (ARIIA) is an initiative of the Ministry of Education (MoE), Government of India to systematically rank all major higher educational institutions and universities in India on indicators related to “Innovation and Entrepreneurship Development” amongst students and faculty.

## German Ambassador at Don Bosco University, 15 February 2022

On 15th February 2022, His Excellency the German Ambassador Walter J. Lindner visited Assam Don Bosco University and interacted with the Vice Chancellor Fr (Dr) Stephen Maveley. The Ambassador was accompanied by Mr. Manfred Auster, Consul-General, Kolkata and Ms Sarah Hasselbarth from German Embassy, Delhi.



The Ambassador was pleased to learn that Don Bosco University has been conducting successful student and faculty exchange programmes with Frankfurt University of Applied Sciences and University of Jena,

Germany. The University in collaboration with these Universities have conducted various exchange programmes and workshops over the years and eight students from Don Bosco University are to go to Frankfurt University as a part of a yearlong Virtual International Student Exchange Programme.

Mr. Lindner also took time to visit the University’s tea garden and interacted with the tea garden workers and supervisors in order to understand the functioning of tea gardens in Assam and the processes involved in manufacturing tea.

## International Women’s Day 2022, 8 March 2022

International Women’s Day was celebrated at the University by various schools. At the school of Humanities and Social Sciences, students of the Department of Social Work conducted a special assembly which included recitation, dance and a prayer. The students also made a number of educational and awareness posters and displayed them at various locations in the campus. The women teachers were felicitated and a movie ‘Hidden Figures’ was shown in the afternoon.



The School of Life Sciences and Fundamental and Applied Sciences also conducted a special assembly in the morning where Ms. Pallabi Borah spoke on the roles played by women in today’s world at various levels of in the society and economics and at the same time the important role of women in a family. A group was also presented by student volunteers. This year’s theme of International Women’s Day is ‘Break the Bias’, which is calling for a world where difference if valued and celebrated, where there is equality for women.

## School of Technology

### National Education Policy 2020, 19 – 24 April 2021

A one day Seminar on “National Education Policy 2020: Challenges and Opportunities for higher Technical Education” was held on 18th September 2021 in the Department of Electronics and Communication Engineering, Assam Don Bosco University, Azara. This Seminar was part of the One week STTP on Nanotechnology (AMAZING NANO 2021) which was held during 19th to 24th April 2021. This was the first phase of the STTP. The second one is to be held in the month of September 2021. The resource persons Prof. Khandarpa Sharma, Gauhati University, Dr. Tania Sur Roy, ADBU and Mr. Mriganka Gogoi, ADBU clearly explained all the aspects of the National Education Policy 2020.



## **Webinar on Solar Photovoltaic Cell: Properties and Design, 3 August 2021**

A webinar on “Solar Photovoltaic Cell: Properties and Design” was organized by the Department of Electrical and Electronics Engineering on 3 August 2021 for the students of class 12, Polytechnic, and BSc final year.

A total of 35 participants from different colleges and universities across India participated in the webinar. Mr. Sunil Deka, Assistant Professor, Department of Electrical and Electronics Engineering was the resource person for the event. The objective of the workshop was to explore the future scope of the photovoltaic cell in the field of energy sector and properties of the two most important components of this technology—sunlight, which provides the primary source of energy, and the solar cells themselves, which convert this sunlight into electricity. He discussed the basic information needed to understand the principles of photovoltaic system operation, to identify appropriate applications, and to undertake simple photovoltaic system design. The Webinar was useful and the participants interacted with their queries at the end.

## **Orientation programme on Entrepreneurship and Innovation, 27 August 2021**

Mr. Ankur Goswami, Assistant Professor, Department of Civil Engineering, Assam Don Bosco University, who is the Convenor of Institution’s Innovation Council of ADBU, addressed an online session on “Orientation programme on Entrepreneurship and Innovation”, conducted by Suren Das College, Hajo, Kamrup, on 27th August 2021. The session was addressed to the under graduate students and faculties of the college. There were also few other participants from other educational institutions. The focus of the session was to create awareness on entrepreneurship and innovation. The various risks and elements to become an entrepreneur were discussed.

## **Hands-on online Workshop on Computation with Python, 30 August - 3 September, 2021**

Department of Electrical and Electronics Engineering (EEE), School of Technology, Assam Don Bosco University (ADBU), organized an International Free “Hands-on Online workshop on Computation with Python”, from 30 August - 3 September, 2021. Participants from different foreign institutions, viz. Strathmore University (Kenya), University of Nairobi (Kenya), Dhaka University of Engineering & Technology (Bangladesh), East Delta University (Bangladesh), as well as from various colleges and universities across India including IIT and SMIT, participated in the 5-day workshop. The main objective of the workshop was to equip the participants with the basics and applications of Python programming language.

Python is the preferred choice of high-level programming language these days by all industries and academia alike. This introductory treatment of Python is primarily intended to provide a glimpse of the computational possibilities of the programming language. The resource persons were Dr. Bikramjit Goswami, and Mr. Jyoti Kumar Barman, Assistant Professor, Assam Don Bosco University.

## Webinar on Application of Artificial Intelligence for Solving Power System Load Forecasting Problems, 12 September 2021

Dr. Mayur Barman, Assistant Professor, Department of Electrical and Electronics, Aditya Engineering College and an alumnus of the EEE department of ADBU (2008-2012), who was the resource person of the webinar, discussed the Power System Load Forecasting (PSLF) schemes used by power companies to predict the power or energy requirement for balancing the supply and load demand at all the times. PSLF is mandatory for the proper functioning of the electrical industry. Dr.



Mayur explained how PSLF enables the utility companies to plan well since they have an understanding of the future consumption or load demand. Statistical tools and AI-based tools (ANN, SVM and Fuzzy inference system) were discussed under PSLF. Furthermore, he also mentioned that SVM hybridized with the suitable evolutionary algorithm is the most efficient method of PSLF in the present scenario. The webinar concluded with a Q&A interactive session between the resource person and the participants. A total of 50 participants, consisting of BTech 5th semester, BTech 7th semester, and MTech students along with the faculty members from the Department of Electrical and Electronics Engineering, attended the webinar.

## Seminar on National Education Policy 2020, 18 September 2021

A total of 89 participants hailing from colleges and Universities across the country took part in the one day seminar. This was the second part of the workshop that was held during April. Dr. Kaustubh Bhattacharyya, ADBU coordinated the Seminar. Dr. Tania Sur Roy, Head, Department of Education, ADBU conducted the 1st technical session enlightening on 'Implementation of NEP 2020 in Higher Education' followed by the 2nd Technical session on 'Vocationalization and Skill Orientation: Dimensions in the NEP 2020' by Prof. Kandarpa Kumar Sarma, Professor and HoD, Department of ECE, Gauhati University. Mr. Mriganka Gogoi, Assistant Professor, department of ECE, ADBU conducted the 3rd technical on 'Use of Technology in Education: Focus on NEP 2020'

## AICTE Sponsored Training Programme, 2 – 5 September 2021, 4 – 8 October 2021

The School of Technology organized AICTE sponsored Training programmes on 2-5 September and 4-8 October with Dr. V.K Raina, a highly reputed Bridge Engineer with a global experience, as the resource person appointed by AICTE as AICTE-Distinguished Chair Professor.

The first training programme was conducted on 2-5 September with Prof. Manoranjan Kalita, Director, School of Technology as the Coordinator. Topics covered in this first lecture series were - 'Why do bridges in our part of the world crack and dis- tress much earlier than in some of the 1st world countries?', 'How

rehabilitation and retrofitting was carried out for three major bridges in Nepal?’ and ‘Pre-engineered ready-to-assemble standard- panel-system bridge superstructures for emergency situations’. 113 participants from Don Bosco University, Assam Engineering College, Jorhat Engineering College, Tezpur University, Regional Institute of Science and Technology and Girijananda Choudhury Institute of Management and Technology took part in the programme.

The second training programme held on 4-8 October was coordinated by Asst. Prof. Gitartha Kalita saw 143 participants in the programme from the neighbouring Engineering Colleges and Universities. Topics covered during these training programmes were : ‘A Practitioner’s Guide to Estimating the Safe Bearing Capacity of Soils Under Caisson Foundations’, ‘Pile Foundations and Open Foundations’, ‘Economics and Quantity-Trends in Alternative Bridge- Structure Schemes and Can Design Be Taught?’

## Alumni Meet - Civil Engineering Department, 9 October 2021

Civil engineering department conducted alumni meet on 9th October, 2021. The department invited two resource persons; Mr. Suman Baruah, who serves in the irrigation department, Assam, and Mr. Manas Jyoti Kalita, assistant engineer in PWD, Guwahati. Mr. Baruah delivered his speech on various irrigation projects and schemes of the Assam Government, such as, diversion head work, canal systems, solar power tubes, etc. Mr. Manas Jyoti Kalita, continued the session with the topic of environmental protection law while constructing highways. The alumni meet, was well attended by past students which made the event successful.

## International Day for Disaster Reduction, 13 October 2021

The Department of Civil Engineering, Assam Don Bosco University (ADBU) organized an International Webinar on the theme ‘Recent insights on Disaster awareness and disaster risk management’ to celebrate the International Day for Disaster Reduction, on 13th October 2021. The event was coordinated successfully by Mrs. Pori Das, Assistant Professor and coordinator of the event with sincere support from the HoD, Dr. T.R. Girija of the Department of Civil Engineering. The webinar was actively participated by the students and faculty from ADBU, Institute of Technology Bandung (ITB), Indonesia as well as Sherubtse College, Royal University of Bhutan.

An interesting talk was delivered by the resource person, Mr. Miga Magenika Julian, Assistant Professor, Department of Geodesy and Geomatics Engineering, Institut Teknologi Bandung (ITB), Indonesia on the topic “Disaster risk management due to tropical coastal dynamics”



that focused on the impact of climate change induced warming on sea level rise, coastal erosion, salt water intrusion, frequent occurrence of tsunami and coastal floods. Dr. Alfita Puspa Handayani, Assistant Professor, Department of Geodesy and Geomatics Engineering, Institute of Technology Bandung (ITB), Indonesia spoke on the topic “Land management on Disaster risk reduction” where the importance of a proper cadastral mapping for land administration and damage assessment after the assessment with field-

based case studies in South-east Asia was highlighted. Mr. Gitartha Kalita, Assistant Professor, Department of Civil Engineering, ADBU, India spoke on the topic “Earthquake resistant design of structures “.It was an illustrative and informative lecture on the recent cutting-edge earthquake resistant techniques that have proved instrumental in minimizing the risk and vulnerability of infrastructures in high earthquake prone areas from regional and global case studies. Mrs. Pori Das, Assistant Professor, Department of Civil Engineering, ADBU, India spoke on the topic “Managing the Himalayan Tsunami “. Her lecture was based on the recent cascading disasters termed as the “Himalayan Tsunami” across the Hindukush Himalayan region particularly triggered by climate change induced unseasonal and uncertain weather events such as cloudbursts, glacier lake outburst floods etc. in the mountainous upstream areas leading to cascading disasters in such as landslides, rockfall and unprecedented deluge in the downstream areas. The various remote-sensing based strategies applying freely available geospatial datasets to manage such catastrophic disasters were also elaborately discussed.

## **Webinar “College Corridor to Corporate Domain - A Beginner’s Guide to Corporate Structure”, 8 October 2021**

A Webinar on “College Corridor to Corporate Domain - A Beginner’s Guide to Corporate Structure” was organized by the Department of Mechanical Engineering; Santanoo Medhi was the resource person for the webinar. Business leader, Santanoo Medhi shared with the students many important insights on how to enter the corporate structure from the college structure and answered various questions.

## **World Energy Day, 22 October 2021**

World Energy Day on 22 October 2021 was observed by the Department of Electrical and Electronics Engineering by conducting expert lectures. The resources persons for the program were Mr. Sanjay Chhettri, Project Manager with Environmental Design Solutions, New Delhi and Professor Izael Pereira Da Silva, Deputy Vice-Chancellor, Research and Innovation Division of Strathmore University, Kenya. The interrelationship between energy poverty and financial poverty, and the role of UN



on sustainable energy was discussed. Fr (Dr) Stephen Mavelly, Vice-Chancellor of ADBU mentioned the historical concentration of industry and wealth in the developed countries that are responsible for major carbon emission and their role to minimize the adverse effects of climate change, in addition to suggesting using all resources of energy responsibly. Mr. Chhettri spoke on the topic “Energy efficiency and renewable energy- A global Perspective” wherein he put forward the concept of every energy unit (KWh) saved is equivalent to two units generated. He also mentioned the relevance of demand-side management, energy security and energy efficiency and net -zero energy building in present-day energy scenario. There has been an intensive discussion on roof-top solar power plants and smart grids for sustainable energy services.

Prof. Izael from Kenya discussed the topic “Energy Transition in Africa and its global lesson”. He mentioned the technologies that have been adopted within the campus of Strathmore University such as the Water

Evaporating Cooling System and 600kW grid-tied PV systems. Furthermore, he elaborated on concept 3 D's for sustainable energy- decarbonization, decentralization and digitalization.

It is worthwhile to mention that the World Energy Forum initiated the World Energy Day on 22 October 2012, to raise awareness about energy usage, ensuring the affordability of safe and sustainable energy for all people while promoting global decarbonizing efforts, and is now observed annually worldwide.

## **Webinar on Road Safety Awareness, 28 October 2021**

Webinar on "Road Safety Awareness" was organized by Department of Computer Applications in association with Honda Motorcycle and Scooter India Pvt. Ltd. The objective was to provide theoretical training for better understanding of Road sense, Good Road Behavior and to emphasize for adapting safe riding / driving habits in daily life. The topics dealt in the webinar were, expectation from road users, use of Safe riding gears/safe driving devices, rules of the road, defensive riding/driving techniques, myths & facts about drunken driving and correct use of vehicle controls riding & driving in difficult conditions. 110 Participants received e-certificates at the end of the webinar.

## **Webinar on "Road Safety Awareness Program" in collaboration with Honda motorcycle & scooter Pvt. Ltd., 11 November 2021**

In collaboration with Honda Motorcycle & Scooter India Pvt. Ltd. (HMSI) - the World's No.1 two-wheeler company, the Civil Engineering Department held a webinar on "Road Safety Awareness Program" on 11th November 2021 from 3 pm onwards. The resource person of the webinar was Mr. Abhilash Singh, Executive in Charge of the safety and training network of HMSI and an alumna of the Computer Science Department of Assam Don Bosco University. He delivered his speech on



various road safety measurements and awareness essential for driving any two or four-wheeler vehicle. The session included examples of correct riding postures, the importance of road safety, and the institute conducting training and research of Honda Motors, and many other aspects. More than 100 students participated in the webinar, including the Civil Engineering Department faculty members. The session was very engaging, and participants were obliged with a participation certificate.

## **Webinar on "Conservation of fossil fuel and energy", 13 November 2021**

A Webinar on "Conservation of fossil fuel and energy" was conducted by Department of Mechanical Engineering in association with Petroleum conservation Research Association (i.e PCRA) on 13 November, 2021. On behalf of PCRA its External Faculty Sri Amalendu Ghosh has conducted the Webinar with technical assistance of Sri Krisanu Sarma. The Webinar was started with the inaugural speech of Dr. Buljit Buragohain, head of the department, mechanical engineering of the university. During the Webinar Sri Ghosh explained the necessities and benefits of conservation of fossil fuel and energy and also several measures to be practised in day to day life and by technical persons in industries. He stressed on more and more tree

plantation, encouraging non-motorised transportation and promoting use of solar energy. Students of this university residing in different places of the region joined the Webinar.

## **Industrial Talk on Substation Automation Systems, 1 December 2021**

The department of Electrical and Electronics Engineering of the School of Technology, Assam Don Bosco University organized a webinar on "Substation Automation Systems" by a technical expert on December 1, 2021, to bridge the industry-academia gap to make the students industry-ready when they enter the professional life. A total of 64 Participants of B.Tech, M.Tech along with the faculty members of the department attended the session delivered by one of its alumni and now an Assistant Manager in the Assam Electricity Grid Co. Ltd. (AEGCL)- Ms. Plabita Kalita, who completed her B.Tech degree from the department in 2014.

Ms. Kalita started her talk with a brief introduction of Substation Automation Systems (SAS) which is a collection of hardware and software components that are used to monitor and control an electrical system, both locally and remotely. SAS uses high-speed microprocessor-based computers and Intelligent Electronic Devices (IEDs). She explained the various functions of SAS, such as monitoring, recording, protection, etc. She also elaborated briefly on the SAS- architecture structure, which includes three levels as the station, bay, and process-level functions. The speaker ended her talk by mentioning the economic advantages of using SAS in an electrical system. The program ended with an interactive session with the students and a vote of thanks by Dr. Bikramjit Goswami.

## **One Day Hands-On Workshop on Data Science and Its Applications Using Python, 4 December 2021**

The departments of Computer Application (CA) and Computer Science Engineering (CSE) of Assam Don Bosco University, School of Technology under the banner of Data Science, Analytics and Cyber Security Club organized a one-day hands-on workshop on data science and its applications using python on 04 December 2021. Mr. Kartheek Chanda, Cyber Security Expert(Ersegment solutions PVT LTD) was the Guest speaker. The Resource persons



for the workshop were Mr. Kausthav Pratim Kalita and Dr. Rup Kumar Deka. A total of 53 students registered for the workshop. The participants had a hands-on python session after the inauguration where they got to learn about various machine learning algorithms and different data science related tools. The resource persons gave an informative overview about the various libraries that are used in data science. After the lunch break, a session was held with the guest speaker about the basics of cybersecurity and its importance, and how to start a career in this field. Also, we were told how to protect ourselves from various kinds of crimes that happen in the online world. The Workshop was a fruitful and learning experience for all the participants. From the feedback received from the participants was positive and they are happy with the workshop. The club is grateful to all who has contributed towards the success of the workshop.

## The Railway Board's Prizes, 26 December 2021

Dr. Jyoti Kumar Barman of Assam Don Bosco University along with Prof. Durlav Hazarika of Assam Engineering College received the Railway Board's Prize 2021 for their paper 'Development of a Mathematical Model for a Railway Track Using a Gray-Box Modelling Technique'. The Prize will be presented at the Prize Distribution Ceremony of the 36th Indian Engineering Congress to be held at Vigyan Bhawan, Maulana Azad Road, New Delhi on 26 December 2021.



The Railway Board's prizes were instituted in 1931 by The Institution of Engineers (India) (IEI), which is the largest multi-disciplinary professional body of engineers, established in 1920 with its Head- quarters located in Kolkata. The prizes are awarded by the Railway Board, Ministry of Railways, Government of India, for the best two papers published in the Institution's Journal on Railway Engineering or subjects allied to it.

## Alumni Talk: Department of Mechanical Engineering, 30 January 2022

Department of Mechanical Engineering organized an online Alumni talk on 30th January 2022. Departments' first batch Alumni Mr. Helish Hojai was the resource person for the programme. The programme was coordinated by Mrs. Leena H. Nemade, Assistant professor, Department of Mechanical Engineering. He encouraged the participants to develop inter-disciplinary knowledge. He also informed the students about the opportunities in NSI (National Safety Institute), Board of Apprenticeship Training (BOAT) and National Apprenticeship Training Scheme (NATS) portals and to have enrol into it in parallel, after graduation while searching job. Overall the programme was very live with the involvement of faculty members along with the H.o.D. and students of the Department of Mechanical Engineering.

## Online Seminar - 'Recent trends in VLSI and Embedded System in Industries and its career prospects', 26 February 2022

A one day, online Seminar on "Recent trends in VLSI and Embedded System in Industries and its Career Prospects" was held on 26th February 2022 by the department of Electronics and Communication Engineering, Assam Don Bosco University in collaboration with Department of Electronics, Lalit Chandra Bharali College, Maligaon, Guwahati and technical support from CoreEL Technologies Pvt. Ltd., Bangalore and was coordinated by Dr. Kaustubh Bhattacharyya, of ADBU.

Total 35 participants have completed the Seminar successfully.

The Seminar began with a short inauguration and welcome speech by Prof. Manoranjan Kalita, Director, SoT. Mr. Arun John Mathias, Manager, Sandeepani School of Embedded System Design, Training division of CoreEL Technologies, Bangalore gave the overview of the Seminar to all the participants. Sessions included following topics Fundamentals on FPGA and its application in IoT by Mr. Mriganka Gogoi, Recent trends and career prospective of VLSI and Embedded System by Ms. Dimpee Baruah, Senior analog design engineer,

SEVYTECH Systems, BEML Layout, Bangalore. Memristor Design by Shekhar Suman Borah, Research Scholar, IIITG.

## Academic lecture on “India towards E-mobility: Technical and socio-economic aspects”, 2 March 2022

Department of Electrical and Electronics Engineering (EEE), School of Technology, Assam Don Bosco University, organized an academic lecture titled “India towards E-mobility: Technical and socio-economic aspects” on 2 March 2022 for the students and faculty members of the department. A total of 52 participants attended the session. The talk was delivered by Dr. Suman Majumder, Assistant Professor, NIT Mizoram. The main objective of the



talk was aware the students about E-mobility in India. The speaker in his lecture mentioned that the due to economic growth in the emerging countries led to rapid urbanization and expansion of existing cities. As a result, major cities in emerging nations experience traffic congestion and deteriorating air quality. One of the solutions to overcome these problems is to develop a comprehensive public transportation system based on clean fuel.

## AICTE Sponsored Three Days National Training Program on Nanotechnology Based Sensor Design, 3 - 5 March 2022

A Three day Training Program on Nanotechnology Based Sensor Design was held during 3-5 March 2022 initiated by the department of Electronics and Communication Engineering and Center of Excellence in Nanotechnology (CoEN), Don Bosco College of Engineering and Technology (School of Technology), Assam Don Bosco University. A total of 40 participants from various colleges and universities registered for this STTP.



Nine technical sessions, included both theoretical and hands-on topics of Nanotechnology. Nanotechnology Based Sensors by Dr. Indrani Dakua, ADBU. Training session on Electrode Design using different Software, Mr. Arup Borah, IIITG, Sensor Fabrication by Ms. Nairika Deka, Assam Down Town University, Microwave and SPR Sensor by Dr. Kumaresh Sarmah, Gauhati University, Nanomaterials and Sensing Mechanism by Karen Das, Synthesis of Gold Nano Particle by Ms. Nairika Deka, Mr. Dhrubajyoti Medhi and Dr. Kaustubh Bhattacharyya, Nanotechnology based Gas Sensors by Dr. Rashi Borgohain, AEC and Heavy Metal Detection by Arnab Kumar Sarkar, Assam Down Town University.

## Invited Talk by Alumni on “Internship Exposures”, 10 March 2022

On 10th March 2022, the Civil Engineering department Alumni Mr. Taushif Ahmed visited his alma mater and interacted with the department's 6th and 4th-semester students at Azara Campus in the conference hall. He delivered a talk on "Internship Exposures". In this session, Director, SOT, Dr. Manoranjan Kalita Sir, was also present, where he shared his valuable thoughts on Internship Exposures.



Mr. Taushif Ahmed served as a young professional field engineer and project engineer in the Northeastern regional water and land management institute (NERIWALM) Government of Assam in Tezpur from August 2015 to January 2022. Mr. Ahmed started urban Planners and Associates, Civil Engineering consultancy services at Tezpur, Assam, in May 2017 as a founder and consultant Engineer. He started the Institute of Technical Training Services (ITTS) at Tezpur, Assam, in 2019. In this session, he highlighted various internship programs offered in ITTS to improve their skills and knowledge in civil engineering and agriculture. He discussed various topics included in the internship program, such as construction drawing in Auto Cad, drip irrigation, remote sensing, and GIS. He shared some light on Universal Transverse Mercator (UTM), a plan coordinate grid system named for the map projection.

## Ek Bharat Shreshtha Bharat, 16 March 2022

School of Technology of Assam Don Bosco University, Don Bosco College of Engineering and Technology (DBCET), celebrated Ek Bharat Shreshtha Bharat (EBSB) programme as part of the Azadi Ka Amrit Mahotsav, Union Ministry of Education, in online mode on March 16th 2022. DBCET organised the programme jointly with Central University of Rajasthan. The main highlight of the event was a presentation on “CULTURE AND MAJOR FESTIVALS OF ASSAM”.

Webinar was organized at the Azara Campus. The presentation encompassed an overview of Assamese culture and arts such as Mukha art of Majuli, bamboo handicraft, Assamese jewellery, Assam silk (paat muga), traditional music and dance of Assam, Bihu Dance, Sattriya Dance, Borgeet, Lokogeet, etc., concluding with an explanation with a galaxy of images depicting the food and prominent places of Assam. The event was coordinated by P. Joseph and Supran Chakravarty, nodal officers of the EBSB programme for DBCET.



## Visit to the Regional Meteorological Centre, Guwahati office on the eve of World Meteorological Day, 23 March 2022

Students of Department of Civil Engg., Assam Don Bosco University visited the Regional Meteorological Centre, Guwahati office on 23rd March 2022, on the eve of World Meteorological Day. The theme for the day was 'Early Warning and Early Action -- Hydrometeorological and Climate Information for Disaster Risk Reduction. The visit was guided by Mr. P Around 45 students are visited in the metrological department during this day assisted by Dr. Suman Hazari, Assistant Professor (Senior) accompanied the students.



The scientists delivered the lectures on how the Metrological department undertakes observations, communications, forecasting and weather services. The students raised some questions based on their lectures and clear their doubts. After that students arrived at the station to see how the meteorological department collects data on temperature, wind, humidity, etc. and prepares various kinds of weather reports. They observed that this information gives weather prediction and provides services to the aviation sector like fog information. The scientists also told them it provides tsunami and earthquake information. Based on the feedback given by the students, they gathered enough knowledge about the weather forecasting and also showed interest to visit again. At last, they thanked the metrological officials and the Civil Engineering department for visiting them in such an interesting and knowledgeable area.

## School of Life Sciences

### One-Day Workshop on Quality Fish Seed Management for Scientific Fish Farming, 18 April 2021

In the first week of April 2021, the Department of Zoology of the University in collaboration with Ulani Krishipam Samabai Samittee, Ulani (Khetri) and Fishfed, Department of Fishery, Government of Assam, engaged the community members of Ulani through a survey conducted to identify problems in fish farming in the village. The survey revealed that the primary problem encountered is the unavailability of “quality fish feed”. With this in mind, a one-day workshop on “Quality Fish Seed Management for Scientific Fish Farming” was organised on 18 April 2021 at Ulani Village, Khetri.

The key speakers were Dr. Dhruvajyoti Sharma, Managing Director, Fishfed, Department of Fishery, Government of Assam; Dr. Sanjay Sharma, State Coordinator of Fishery, World Bank Project; and Mr. Santanu Saikia, President, AKINCHAN. The speakers focussed on “fish improvement initiatives” which include adoption of modern technologies and using high quality fish seed to boost their productivity for meeting the growing demands of the population and in turn, improve their socioeconomic status. The importance of fish hatcheries was highlighted and the establishment of a hatchery association was also encouraged. The

speakers were enthusiastic about transforming the village into a “Quality Fish Seed Bank Village” which will supply fish seeds to other regions whenever required.

Furthermore, the community members were educated about pond management which is of utmost importance for the success of the programme. Assam Don Bosco University will regularly monitor the progress under the aegis of Fishfed, Government of Assam.

## World Earth Day, 22 April 2021

22 April 2021, was celebrated as Earth Day, marks an important annual event where people across the world come together to ‘demonstrate support for environmental protection’. The theme for this year’s Earth Day is “Restore Our Earth”. To contribute to this event, the Department of Zoology in collaboration with the EcoClub organised a short programme which featured a brief introduction on the significance of the day followed by the release of the annual Wall Magazine of the Department. Resmin Sultana, a student of the Department, delivered a riveting message on the current scenario and emphasized how we can become harbingers of global environmental change. The Wall Magazine was unveiled by Rev. Fr. (Dr.) Stephen Mavely, Vice Chancellor, Assam Don Bosco University who, in his speech, reminded us of our role as “Stewards” of the Earth and *not* its Masters, and encouraged everyone to be conscious of their responsibilities in protecting and conserving the Earth.

On this Earth Day, a pledge was taken for restoring our planet and making peace with nature, inspired by our very own traditional ethos of living in harmony with the environment.

## International Immunology Day, 29 April 2021

The Department of Biosciences organized a webinar on the International Immunology Day, Origin, evolution and molecular characterization of SARS-CoV-2: The world and the Indian scenario, to commemorate the International Immunology Day on 29 April 2022. The foundation of the day was to fortify immunology as the root for the overall health and well-being of an individual among the public and scientific community.

Prof. Biswajyoti Borkakoty, gave a vivid talk on the topic that was relevant to the cause of currently threatening virus.

**ORIGIN, EVOLUTION AND MOLECULAR CHARACTERIZATION OF SARS-CoV-2: THE WORLD AND THE INDIAN SCENARIO**

**Dr Biswajyoti Borkakoty**  
(MD) Scientist-E & Principal cum Nodal officer, Regional Viral Research & Diagnostic Laboratory, ICMR-Regional Medical Research Centre for NE Region

**E-Poster Competition**  
Theme: COVID-19  
Late date: 27th April  
Time: 11:59 pm

Contact info:  
monika.soni@dbu.ac.in  
For Query: 6003154361

**Convener: Dr Monika Soni**  
Asst Prof. Dept. of Bio-Sciences  
Assam Don Bosco University

**International Immunology Day, 29th April**  
Time: IST 10:30 am – 12:00 pm  
Zoom Webinar Meeting Link:  
<https://dbu.ac.in/2021/04/29/immunity/>

Organised by: Dept. of Bio-Sciences, Assam Don Bosco University  
Funded by: Indian Immunology Society

ASSAM DON BOSCO UNIVERSITY | ICMR RMRCE

## Session on “Career Pathways in Biosciences”, Department of Biosciences, 21 August 2021

Research Journal Club Department of Biosciences organised an online session on the topic “Career Pathways in Biosciences” on 21st August 2021 for M.Sc students and research scholars of the Department. The session

was co-ordinated by Dr. Jayanti Datta Roy and Dr. Nazneen Hussain, Faculty members, Department of Biosciences and moderated by Ms Magnolia Laloo, Sohini Saha and Ritwika Roy. The session commenced with words of support by Prof. J.N Vishwakarma, Director of Research and words of encouragement by Sister Shiny C Thomas. Mr. Barry C Hynniewta, Research Scholar, Department of Biosciences highlighted on the topic "Frontiers in Biosciences (India and Abroad)", Mr. Arup Khakhlari, Research Scholar, Department of Biosciences delivered the topic on "Fellowships for Research and Innovation" and Dr. Raj Kumar Pegu, Assistant Professor, Department of Botany illustrated on the topic on "Inside view: post PG examinations perspectives". 44 participants including the MSc students and Research scholars, Department of Biosciences and the session will be uploaded in the Departmental youtube channels.

## World Animal Day 2021, 4 October 2021

The Department of Zoology in collaboration with the Eco-Club of Assam Don Bosco University organized the World Animal Day on 4th October 2021.

The programme began with the "Season of Creation" Eucharistic Mass at 7:00AM in the Chapel of the University. The main celebrant was Rev. Fr. (Dr.) Stephen Mavelly, Honorable Vice Chancellor, Assam Don Bosco University. Dr. Simanta Kalita, Head, Department of Zoology, addressed the students on the significance of Animal Day, saving of animal abuse and efforts for creation of



awareness for animal protection and conservation. In his address, Rev. Fr. (Dr.) Stephen Mavelly, Hon'ble Vice Chancellor of the University, spoke of the interconnectedness of all living beings, the absence of which may lead to an imbalance and disruption of the balance in nature. Alumni members from the Department, shared their experience on research in the University and presented their works to the present students of the Department. The presentations were entitled "Status and Distribution of Fireflies of Meghalaya using Science Approach", "A Comparative Study between Commercial Fish Feed on the Growth Performance on *Labeo rohita*" and "Past and Present Distribution of *Ascarcorinis scutulata* (S. Muller, 1842) in Assam, India" delivered by Emma, Cynthia and Taniya respectively. The morning session concluded with a short play, entitled 'Venom', by the graduate students. Through the play, the students were able to create an awareness of first-aid when a person is bitten by a snake. A Brain Teaser - Nature Quiz conducted by Mr. Nilutpal Mahanta, Assistant Professor of the Department and a documentary screening of "David Attenborough: A Life on Our Planet" were also included in the programme. The programme concluded with a note of appreciation by Resmin Sultana. There were a total of 54 participants in the Event.

## Alumni Activity #1, Department of Zoology, 4 October 2021

Keeping in mind the relevance of remaining interconnected, alumni members from the Department, Emma Magdalene Nonglang, Cynthia Myllem Mawlong, and Taniya Talwar shared their experience on research in the University and presented their works to the ug and PG students of the Department. The presentations were entitled "Status and Distribution of Fireflies of Meghalaya using Science Approach", "A Comparative

Study between Commercial Fish Feed on the Growth Performance on *Labeo rohita*” and “Past and Present Distribution of *Ascarcorinis scutulata* (S. Muller,1842) in Assam, India” delivered by Emma, Cynthia and Taniya respectively.

## World Habitat Day, 4 October 2021

World Habitat Day is marked on the first Monday of October every year. This year, it will be observed on October 4, 2021. World Habitat Day aims to remind people across the world that they have the power and the responsibility to shape the future of towns and cities and as whole the entire environment. The theme for World Habitat Day 2021 is accelerating action for a carbon-free world.



As such, to commemorate the World Habitat Day 2021, Department of Botany, Assam Don Bosco University under the banner of “Biowizards Club”, by organizing a plantation drives of Rare and Endangered Tree Species within the campus of the University. The program was a joint endeavor Central Ayurveda Research Institute (CARI), Guwahati, CCRAS, Ministry of Ayush, Govt. of India; National Medicinal Plants Board (NMPB), Ministry of Ayush, Govt. of India and Department of Environment and Forests, Government of Assam.

The program was admirably inaugurated with a welcome speech from Dr. Geetashree Bora, HoD, Department of Botany, ADBU, followed by a series of lectures by Prof. J.N. Vishwakarma, Director (Research), ADBU, Dr Prasantha Choudhury, Director (Life Science), ADBU and Father Abraham. Altogether, 70 students both from under-graduate and post- graduate level took part in the program. In this drive, a total of 60 different saplings consisting of various Rare and Endangered Tree Species were planted during the program.

## Industrial Visit: Eri Basic Seed Centre, Central Silk Board, Topatoli, 20 October 2021

On 20<sup>th</sup> October 2021, the Entomology students of the Department of Zoology visited the Eri Basic Seed Centre, Central Silk Board, Topatoli, Assam. The Centre is involved in Research and development on Eri Silk Worm; providing quality seed of Eri Silk Worm to the local people as well to the other states; providing training to the local people on modern eri culture; supporting the students for the academic purpose; and providing financial support for the plantation of eri silkworm to the local people.



The event was a day-long program which was divided into two sessions. The first session was a lecture by Dr. Lalitha Natarajan, Scientist D, who covered topics which included: Future prospects of Eri Culture in North East; Areas of research in the field of Eri Culture; Grainage system; Diseases and Production of Disease-Free Layings (DFL); Host plants; and entrepreneurship in Eri Culture.

The second session included laboratory visits. The students witnessed the Grainage House, Rearing House and DFL laboratory. There was a demonstration on ensuring successful grainage operation; disinfection of equipment by washing, spraying, and fumigation; maintenance of proper hygienic conditions; and the detection of different diseases with the help of microscopic examinations.

## # 10 Lecture Series, 11 December 2021

The Department of Zoology, Don Bosco University in collaboration with Eco Club organized the Tenth Lecture Series on “Butterflies” which was delivered by Mr. Peter Smetacek, the **Butterfly Man of India** on 11 December 2021. The two-session event began at 2:00 PM with a welcome address by Gracy PI, M.Sc. student representative followed by the felicitation of Peter Smetacek by Dr. Prasanta Kumar Choudhary, Director, School of Life Sciences. In his talk, Smetacek perspicuously enlightened the audience on the world of butterflies.



He began by reminding us of the differences between butterflies and moths, explaining about their feeding behavior, different species of butterflies found at different elevations in India, mimicry and metamorphosis, to name a few. He also mentioned that the total number of butterfly species recorded in India till date is 1,327. This was followed by an exciting and productive interactive session. The second session, “An evening with Peter Smetacek” began at 5:30 PM. In this session, Mr. Smetacek lucidly demonstrated the setting up of a light trap for moths. A total of 14 species of moths were recorded during the light trapping session.

## Workshop on Applied Bioinformatics, 4 - 8 February 2022

The Department of Zoology organized a 5-day online workshop on ‘Applied Bioinformatics’ from 4<sup>th</sup> February to 8<sup>th</sup> February, 2022. The aim of the workshop was to introduce the students to the field of Bioinformatics and familiarize them with the tools in bioinformatics and their applications. The event began with a brief note of welcome by Dr. Himadri Kalita, Assistant Professor of the Department. The resource person was Dr. Saurov Mahanta, Senior Technical Officer, NIELIT, who spoke on a wide range of topics: Biological Sequence data: Generation and Retrieval; Database resources of NCBI AND EBI; Sequence analysis using Bio-Edit and similar packages; Sequence alignment, Different types of BLAST analysis; Molecular Phylogeny, Phylogenetic analysis using

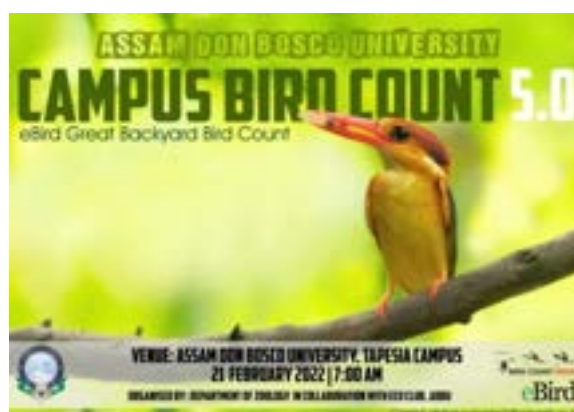


MEGA; Basics of Protein Structure, Protein structure Databases, 3D protein structure visualization; Homology modeling of Protein structures; Small molecule structure databases and preparation of small molecules for docking; and Basic concepts of Protein- Ligand Docking.

In one of the sessions, Dr. Mahanta also shared ideas on how we can use Bioinformatics as a tool to prepare a database of the insects in the University by considering key components such as identifying the species present, noting the taxonomic details, their special phenotypic characters, and their photographs. There was a total of 48 participants.

## Campus Bird Count 5.0, 21 February 2022

On the occasion of the 'Great Backyard Bird Count', eBird's international event, 'Campus Bird Count', India's sub-event, the Department of Zoology in collaboration with EcoClub, Don Bosco University organized the Campus Bird Count 5.0 on the 21st of February, 2022 in its Tapesia Campus. The event started as early as 7:00 am and was conducted under the expertise of Dr. Nilutpal Mahanta, Assistant Professor of the Department and an eminent birder, who has been closely associated with the University's bird count event and updating checklists at the eBird portal for the University since 2018. The event was also attended by hobbyist birdwatchers, Dr.



Dr. Sangeeta Das, Assistant Professor, Department of Zoology, Pragjyotish College; Mr Himadri Bhuyan, renowned nature and wildlife photographer and Photography Mentor at Nikon School, India; Mr Dadul Kalita, Laboratory Assistant; and Miss Resmin Sultana, MSc 3rd semester student and member of EcoClub. The small team of five was ecstatic to have recorded a record high of 76 avian species in the day-long event amidst the beautiful hilly tea gardens of Tapesia. The campus boasts of having a myriad of bird diversity and this year's bird count only added to its already documented count of 89 checklists available at the eBird portal for the University. The group was rewarded with the rare sighting of Slender Billed Oriole (*Oriolus tenuirostris*) as opposed to the never-before recorded Indian Golden Oriole (*Oriolus kundoo*) from last year's checklist. Apart from the common bird species recorded, like Cattle Egret, Spotted Dove, Asian Barred Owl, Common Myna, Asian Palm Swift, Rock Pigeon, Pond Heron, and Common Hawk Cuckoo, the group also recorded the sightings of Black Hooded Oriole, Oriental Pied-Hornbill, Lesser Yellownappe, Greater Necklaced Laughing Thrush, Blue-winged Leafbird, Verditer Flycatcher, and around 5-6 species of Drongos, amongst others.

On the sidelines of the bird count event, the team also sighted a pair of Rhesus Macaque, a group of Capped Langurs, a few Himalayan Striped Squirrels, as well as heard the cry of a wild cat in the vicinity. The Vice Chancellor of the university, Father (Dr.) Stephen Mavelly, briefly exchanged words with the group at the day's start while expressing his desire to record Hornbills from the campus, and also wished the team the very best for a successful birding event for yet another year.

## National Science Day, 8 March 2022

On the occasion of National Science Day 2022, the School of Life Sciences in collaboration with NSS Unit, Don Bosco University, organized a day-long programme on 8 March 2022. The theme for this year's NSD is '*Integrated Approach in S&T for a Sustainable Future*'. The events scheduled for the day included competitions in Extempore Speech, Quiz, Poster, and Photography. The competitions were based on topics related to the theme for the day and each of them had enthusiastic participants. There was a total of 200 participants.

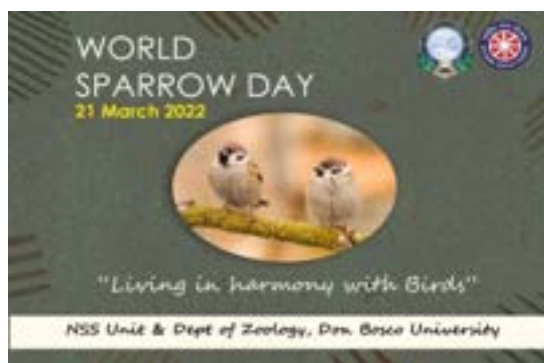


## Lecture on 'Career Prospects in Zoology', 16 March 2022

On the 16 of March, 2022, the Department of Zoology, Assam Don Bosco University, welcomed Dr. Sushil Kumar Dutta, Professor Emeritus to the Department of Zoology, for an interactive session on 'Career Prospects in Zoology'. Professor Dutta discussed the evolution of Biological Sciences and its changing trends to its present-day offshoots. He emphasized on the career prospects in this field and also answered students' queries regarding the same. He stressed upon the fact that as pure biologists, getting a well-placed job is far easier these days as compared to other allied branches and that the students of the Department are likely to have a higher market value than is actually thought of. Dr. Dutta ended this informal session on a positive note asking the students to make the most of their degree, but not at the cost of losing their hobbies. The session concluded with a vote of thanks by Professor Saibal Sengupta of the Department, who heartily thanked Professor Dutta and the audience for coming together in the learning process and making it a memorable experience. The session was attended by 71 participants.

## World Sparrow Day, 21 March 2022

On the occasion of World Sparrow Day on 21st March 2022, the NSS Unit of Assam Don Bosco University in collaboration with the Department of Zoology organized a programme "Living in Harmony with Birds". The resource person was Dr. Nilutpal Mahanta, Assistant Professor, Department of Zoology, Assam Don Bosco University. In his talk, Dr. Mahanta began by introducing the audience to the world of aves through a video showing different types of birds, their chirping and singing. These included Eurasian skylark, common snipe, goldcrest, corncrake, reed buntings, amongst others. The session was informative and interactive wherein the audience was engaged in activities that were included during the talk. Dr. Mahanta spoke on the importance of birds, stating their five ecological functions: scavenging, seed dispersal, pollination, insect control, and as indicators of environment. He concluded with the threats faced by the avifauna as a whole which is mainly attributed to anthropogenic



activities like industrialization, pollution, habitat alteration and destruction, and hunting. This first session concluded with a vote of thanks by Miss Mebari Dorphang. The second session was 'Bird-watching with Nilutpal Mahanta' where the students along with the NSS volunteers embarked on a brief bird-watching trip in the campus. The programme concluded with a short documentary on Manas National Park. There was a total of 96 participants.

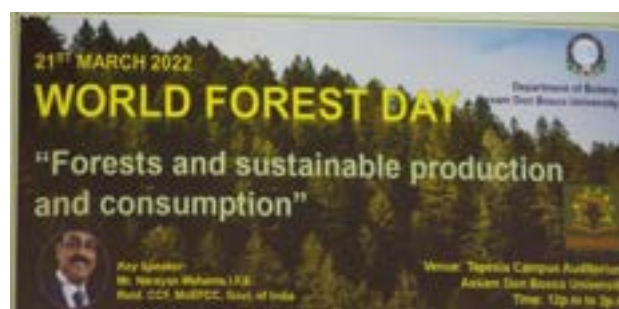
## World Frog Day, 21 March 2022

On the occasion of World Frog Day, the Department of Zoology in collaboration with EcoClub, Don Bosco University, organized a talk on 'Tadpoles' on 21 March 2022. The session was delivered by Dr. Dipankar Dutta, Head, Department of Zoology, University of Science and Technology, Meghalaya. Student representative, Resmin Sultana, extended a warm welcome to the attendees followed by the felicitation of Dr. Dipankar Dutta. Dr. Dutta began his lecture with a brief introduction on tadpoles. He went on to explain the poor quality of frog description which leads to a decrease in the accuracy of the numbers in frog species in India. Dr. Dutta described the detailed morphological structure of a tadpole, the types, diversity of larval feeding types, habitat types, and microhabitat data sheets for tadpoles, oral apparatus, anuran life-cycle, different stages of development, microhabitat of anuran egg-laying sites, amongst others. Dr. Dutta concluded by encouraging the students to fill in the research gaps that exist in the world of anuran biology. The programme concluded with a note of thanks by Dr. Bakhtiar Hussain, Head, Department of Zoology. There was a total of 105 participants.



## International Day of Forests, 21 March 2022

Department of Botany, ADBU, in association with Bio-wizards club celebrated the International Day of Forests on 21st March 2022 to raise awareness of the importance of all types of forests. A seminar was organized along with other activities. Shri Narayan Mahanta, IFS, retd CCF, MoEFCC, GOI, was invited to deliver a talk on the theme 'Forests and sustainable production and consumption' to around 200 participants including faculties from school of Life Sciences, Assam Don Bosco University. This was followed by an interactive session with the students.



## Lecture Series # 12: The Art and Science of Natural History, 25 March 2022

On 25th March 2022, the Department of Zoology, Assam Don Bosco University, in collaboration with Eco Club organized a talk on "The Art and Science of Natural History" as part of the Lecture Series 12. The resource person for the scheduled talk was Dr. Narayan Sharma, Assistant Professor and Head, Department of Environmental Biology and Wildlife Sciences, Cotton University. The event began with a warm welcome by student representative Kimdeilam Doungel. This was followed by the lecture by Dr. Narayan Sharma, who

familiarized the gathering with the topic of natural history. He said that natural history is not a hardcore branch of science, rather, it mixes art and history in Science, something that "evokes a sense of romanticism", which is not embodied in ecology, more so in science. He said that natural history is more like a description of what we see or hear, rather than experimentation. To give a gist of what exactly the subject matter entailed, Dr. Sharma upheld various authors' definition of natural history which included that of David Starr Jordan, Peter Grant, SG Herman and KP Schmidt (1946). Dr. Sharma held that science in itself is very objective. He went on to explain the Hypothetico-deductive approach which includes a set sequence of events: observation, pattern, theory, that can never be violated in science. To justify this approach, he cited the example of Sherlock Holmes, who in all of its adaptations tells Watson that he used the power of deduction to solve crimes. However, natural history is the opposite. One can see a departure from this Hypothetico-deductive approach, into a more abstract perspective of science, which allows us to bend our understanding of nature. Natural history, according to him, is at the heart of building theories.

Dr. Narayan Sharma also shared tips on how to become an observant naturalist. He told the audience that the very first step to becoming one is to "cultivate curiosity and be mindful" of our surroundings. He encouraged the beginners and learners to ask 6 basic questions: who, what, when, where, how, why; to scrutinize, touch, smell, listen, measure; to conduct simple experiments; to teach others on the way to perpetual learning; to analyze observations, and finally to put knowledge into action. As the lecture neared its end, Dr. Narayan Sharma shared his thoughts on natural history and its changing course through the years. He threw light on the most important question, "Is natural history dead? He said that over the years, there had been a decline in engagement with nature. He quoted Richard Louv's "Nature Deficit Disorder", a disorder where the learner does not have enough knowledge or association with nature. Moreover, he also added that India has seen a dearth of naturalists. He listed some key reasons for such decline including but not limited to fancy modeling approaches, strict adherence to Popperian concepts, rise of hard sciences and fast result-oriented science, and intrusion of mathematics in biological sciences. However, there was good news.

Towards the end, Professor Saibal Sengupta, Department of Zoology, Assam Don Bosco University, felicitated Dr. Narayan Sharma with a token of gratitude. The lecture finally came to close with a vote of thanks by Kimdeilam Doungeil. The programme drew 107 participants.

## **Bio fertilizer Development Organised by Vita Scientia Club, Department Of Biosciences, 30 March 2022**

The students from the Department of Bio-Sciences have learned the skill of Vermicomposting as one of the activities under Vita Scientia club. In this context, a hands-on training was conducted by the faculty advisor, Dr. Nazneen Hussain to ensure skill advancement and encourage the concept of start-ups among young minds. The objective of the project was to manage all the kitchen waste generated in the campus at Assam Don Bosco University. The training program focused on the key area of managing kitchen waste and reduces the emission of harmful chemicals from waste. The core idea of the program was to create an awareness among the students and help them contribute in their best possible way in reaching the



sustainable development goals (SDGs) via scientific handling of wastes.

On successful completion of the training program the students of Bio-Sciences have developed a biofertilizer from the kitchen wastes at ADBU. The product was launched on 30th of March, 2022. The launch of the 'biofertilizer' was graced by the presence of our Honourable Vice Chancellor, Rev. (Dr) Fr. Stephen Mavelly. The program concluded with a vote of thanks.

## School of Humanities and Social Sciences

### Celebration of International Literacy Day, 8 September 2021

On the occasion of International Literacy Day, the Department of Education and the Department of Mass Communication, Assam Don Bosco University in collaboration with Sonapur College, Assam, organized a National Webinar on the topic "Inclusive Distance with Digital Literacy Learning: Issues and Challenges of Higher Education Institution in the time of COVID-19 and Beyond" on 8th September, 2021 on virtual platform. Dr. Mridul Hazarika, Former Vice Chancellor of Gauhati University, was the chief speaker of the webinar. While speaking on the occasion, Dr. Hazarika spoke on the challenges that the Higher Education Institutions are facing to make the virtual learning system. Mr. Vijay Prasad from the Department of Computer Application, ADBU, as the second resource person deliberated on the techniques of online learning and the importance and usage of different search engines for making online teaching-learning more effective and easier. There were around 100 participants who benefitted from this resourceful webinar.



### 9th Foundation Day, 2021, Department of Psychology and Counselling, 10 September 2021

The Department of Psychology and Counselling, Assam Don Bosco University observed its 9th Foundation Day on the 10th of September 2021 on the theme 'Suicide Prevention' along with World Suicide Prevention Day. The events for the day were renewal of the department Wall Magazine, on the theme, Chakra Balance and Mental Health; Posters display Suicide Prevention Awareness Week, talk session on Suicide Prevention by Chandamita Barua, Clinical Psychologist and movie screening followed by Academic and Clinical Discussion.

### Lecture on Academic Writing: Research Paper, 18 September 2021

The Department of English organized an online lecture on 'Academic Writing: Research Paper' on 18 September 2021.

A renowned scholar Dr. Tikaram Poudel, who worked as Language Scientist at Konstanz University, Konstanz, Germany, and recently working at Kathmandu University, Nepal, was the resource person. In his lecture, Dr. Poudel outlined what a research paper ought to be, its structure, methodology and other dynamics involved in writing it. Eventually, he supplemented the lecture with a case study analyzing one of the research papers written by one of our Alumni. Around eighty participants from Don Bosco University, other institutions from Assam, and India in general, Nepal and Bangladesh attended the lecture.



## **Workshop on Review of Literature and APA Referencing & Tool Construction, 24 September 2021 and 1 November 2021**

A workshop on Review of Literature and APA Referencing was held by the Department of Psychology on 24 September 2021. In this workshop, students were walked through the steps and structure of a literature review. They were also educated about databases that can be used for survey of literature. Students were taught how to refer different sources in their thesis. Some important referencing tools were also discussed. The workshops were conducted by Ms. Koninika Mukherjee and Mr. Joydeep Das from the Department of Psychology, ADBU.



In addition to this, a workshop was held on Tool Construction on 1st November, 2021. In this workshop, students were taught about qualitative as well as quantitative techniques. The topics included steps of test construction, psychometric properties of a quantitative test, item analysis and exploratory factor analysis, confirmatory factor analysis and development of norms and test manual. The second session included topics of Introduction to Qualitative Research, Qualitative-Quantitative continuum, Types of Qualitative Research, Qualitative Research Tools- Interview, Focus Group, Observation, Researcher as a tool, Researcher Biasness, Expert Rating of item, Inter-observer reliability, face validity and content validity, Guideline to construct interview questionnaire.

## **World Mental Health Day 2021, 8- 10 October 2021**

The Department of Psychology and Counselling observed the World Mental Health Day 2021 with a three day celebration starting from 8 - 10 October 2021. A series of activities related to the theme “Mental Health in an Unequal World” was scheduled in these three days. Mind Jar activity, which was an initiative for staff and students of Tapesia campus to vent out the negative emotionality or thoughts in anonymity. E-Newsletter Release, which incorporated a collection of articles and cross-word puzzles. The department, Volunteered to help in the Society for Mental Health in Low and Middle Income Countries (LAMIC). Society for Mental Health (SoMHIL) in association with LAMIC organized an event to celebrate the World Mental Health



day in three different locations of Guwahati: Shradhanhanjali Kannan, Nehru Park, and Tarun Ram Phukan Park. The faculty members and students of the department voluntarily participated for the smooth conducting of the event.

## **Expert Lecture by Dr. Kiran Keshavamurthy, 30 October 2021**

On 30th October 2021, the Department of English, Assam Don Bosco University, Tapesia Campus organized the lecture of the Expert Lecture. The Expert Lecture was delivered by Dr. Kiran Keshavamurthy, Assistant Professor, School of Humanities and Social Sciences, Indian Institute of Technology, Guwahati on a relevant topic titled “Fragmented Lands, Mistaken Identities: The Partition and the Short Story”. There were around 130 registrations with participants from across India. In his insightful, gripping and pertinent presentation on “Fragmented Lands, Mistaken Identities: The Partition and the Short Story”, the speaker Dr. Kiran Keshavamurthy highlighted, in a student-friendly manner, the issues pertaining to the partition of India and Pakistan and the problems related to this social, political, religious and communal issue. Dr. Keshavamurthy provided a critique of partition with the help of the short stories “Toba Tek Singh” and “Ram Khilavan”, exploring partition through the perspective of the lunatic. His presentation was followed by an informal introduction of the speaker by Dr. Pritam Priya Goswami, Asst. Professor, and the Coordinator of the event. This was followed by an interactive discussion session with enthusiastic participants.

## **National Education Day 2021, 11 November 2021**

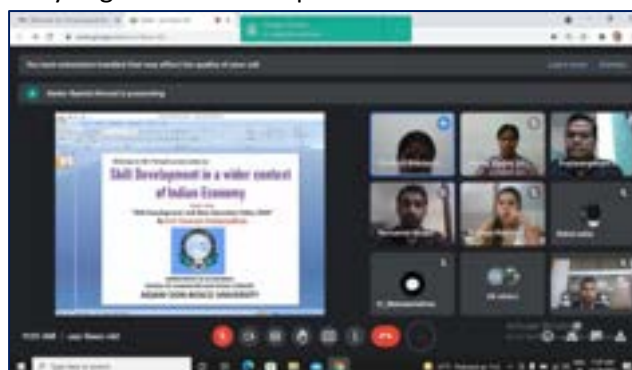
The Department of Education, ADBU celebrated the National Education Day 2021 with the national theme ‘Recover and Revitalize for the Covid 19 generation through technology’ on 11th November, 2021 at Tapesia Campus. A departmental wall magazine named ‘Techno-Pedagogy’ (under Club- EDUCARE) was inaugurated by the Vice Chancellor, Father (Dr.) Stephen Mavelly to mark the occasion. In his speech Fr. Mavelly urged the students to engage themselves in activities which give them happiness. He said that, “This will also make learning joyful for them as well as the teachers. Physical, intellectual and emotional engagement in the task at hand is important then only one can master it and in the long run apply it to fulfill the dreams of one’s life. Only one who is enlightened can enlighten others”.



The Director of the School of Humanities and Social Sciences, Dr. Riju Sharma too in her speech emphasized the importance of being creative and innovative. A special talk was delivered by Dr. Kishor Chandra Satpathy, Chief Librarian, Indian Statistical Institute, Kolkata, virtually on ‘Research Metrics in Higher Education’. A total of 125 students, faculty members and research scholars have participated online via Google Meet and 26 members, including students and faculties, participated offline in the class via projector. The Educare club, under the aegis of the Department of Education, also conducted a poster competition among the students of the entire campus on this occasion.

## **Virtual Lecture Series on Skill Development in a wider context of Indian Economy, Department of Economics, 18 November – 20 December 2021**

The Department of Economics, Assam Don Bosco University organized a three-part lecture series held from 18th November to 20th December, 2021. The main theme of the lecture series was “Skill Development in a wider context of Indian Economy.” Skill development is a vital tool to empower youth for their overall development. Skill development is a critical aspect for job creation especially in developing countries like India. The First lecture was held on 18th November, 2021, the resource person Prof. Karanam Pushpanadham, Department of Educational Administration, Maharaja Sayajirao University of Baroda delivered his lecture on the topic, “Skill Development and New Education Policy 2020.” He highlighted the skills needed in the 21st century by emphasizing the 4Cs-Communication Skills, Collaboration, Critical Thinking & Creativity. Around 100 participants attended this lecture. The second lecture was conducted on 8th December 2021. Mr. Anupam Dutta, Deputy Director, State Institute of Rural Development, Assam delivered his lecture on the topic, “Skill Development Programmes in North East India”. He highlighted the requirement of skill population for developing a nation. He emphasizes the importance of skill development in all sectors of the economy. He challenged the students to take up skill development training/programs which are started by the government to generate employment opportunities in the region. Around 95 participants attended the lecture. On 20th December 2021, the third lecture as part of the lecture series, on the theme” Skill Development in a Wider Concept of Indian Economy was organized by the department of Economics. The resource person was Prof. Hiranya K. Nath, Sam Houston State University, Texas (USA). He delivered his lecture on the topic, “21st Century Skills”. He briefed the participants on the enormous opportunities available for skilling oneself.



### **A talk by Dr. Rakhee Kalita Moral, 22 November 2021**

The Department of English organized a talk on ‘The Ecological Imagination of Contemporary Women Writers: Engaging NE India’ by Dr Rakhee Kalita Moral, Head, Centre for Women’s Studies and Associate Professor of English at Cotton University on 22 November 2021.

The talk was based on a comprehensive discussion on Ecofeminism with a special focus on the north eastern context. The connection between the idea of ‘home’, ‘heart’ and ‘habitat’ as established by the contemporary women writers of North-east India such as Nitoo Das, Mamang Dai, Easterine Kire and several other eminent authors was explored and examined in the course of the lecture. The talk also embarked on the North-east India’s literary representations of the concerns and dynamics of environmental issues which is instrumental in generating a holistic consciousness in the society about the importance of natural elements and their preservation.

The session served deeply beneficial for the students and research scholars who actively took part in the event. There were 200 registrations from across the state and other parts of India. The talk was attended by

220 participants.

## Constitution Day Celebration by Department of Public Administration at Assam Don Bosco University, 26 November 2021

The Department of Public Administration, Assam Don Bosco University, Tapesia campus organized a webinar on November 26, 2021 on the occasion of the Constitution Day. Prof. Inderjeet Singh Sodhi, Professor and Head, Department of Local Governance, Rajiv Gandhi National Institution of Youth Development (RGNID), Sriperumbudur, Tamil Nadu, India delivered a special lecture on the Indian Constitution. More than 60 participants were present in the webinar-special lecture via Google Meet.



Prof. Inderjeet Singh Sodhi delivered his special lecture on Indian Constitution and instilled in all the participants curiosity and the thirst with the various parts, articles, schedules, of the Indian constitution. He discussed in detail the Constitution with its Preamble to various articles which dignifies our citizens and amplifies rule of law that we need to execute in the country. He also enlightened the participants on the fundamental rights, diversified characteristics; the Constitution of our country imparts same equal treatment to everyone, the idea of Liberty, Equality and Fraternity which are to be followed with fundamental duties.

## Good Governance Day: December 21, 2022

The Department of Public Administration at Assam Don Bosco University, Tapesia Campus organized a webinar on December 21, 2021 from 11 Am to 2 Pm on the occasion of the Good Governance Day. Resource persons, Prof. (Dr.) M. Uma Maheswari, Department of Politics and Public Administration, University of Madras, Chennai and Dr. Meera Rajeev Kumar, Department of Public Administration, Madras Christian College, Chennai delivered lectures. Around 80 participants attended.

## Session on Group Work and Creativity, Department of Psychology, 5 January 2022

The Department of Psychology organised a student development activity for the year 2022 on the 5th of January 2022. The one day session was on Group Work and Creativity. The resource person for the day was Dr. Jonali Baruah, Associate Professor & Graduate Program Director, Department of Psychology, Tarleton University, Texas A&M University System. Dr. Baruah delivered a holistic 90 minutes session on Group Work and Creativity focusing on sub domains like group formation, group culture, diversity in group work, group decision making, productivity in diversity and creativity in diversity. The



students were also exposed to a classroom experiment on creativity and productivity in different group dynamics. This helped them understand better the theoretical grounds of the subject.

The session ended with an enthusiastic discussion on group dynamics in various vocations. There were insightful and novel communications on how fields like agriculture can also be related to Organisational Psychology. The Department is grateful to the University and Dr. Jonali Baruah for the success of the session.

## Towards Tobacco-Free Campus, 5 January 2022

A sensitization program on *“Harms of Tobacco Consumption & Steps towards Tobacco-Free Campus”* was organized on 5th January 2022 at Assam Don Bosco University in collaboration with the funders of Uniservitate and the National Tobacco Control Programme (NTCP) team from the State of Assam (Kamrup and Jorhat District). A total of 113 students and faculty members attended the session. The sessions focused on creating awareness about the harmful effects of tobacco consumption, its ill effects on health and the need to make Assam Don Bosco University campus a



‘Tobacco-Free Zone’. First session was on *“Tobacco Free Educational Institute”* led by Dr. Arundhati Deka (Deputy Director of Health Services at Government of Assam cum State Nodal Officer at National Tobacco Control Programme, Assam). The Second Session was on *“Tobacco & Risk Factors for Health”* led by Dr. Mridul B. Nath (District Nodal Officer at National Tobacco Control Programme & District Tuberculosis Officer at the National Tuberculosis Elimination Programme, Kamrup). The Third session was on *“COPTA-2003 & Other Legislation Laws and Tobacco Monitor App”* by Dr. Mrinal Medhi (State Programme Manager of the State Tobacco Control Cell at Assam). The Fourth Session was on *“Tobacco & Tuberculosis”* by Dr. Simanta Borah (TB/HIV Coordinator at National Tuberculosis Elimination Programme, Assam). Dr. Anisha Dutta (Bachelors in Dental Surgery, pursuing Master in Public Health, and currently working as an intern in Directorate of Health Services) further notified to the participants the need to care and protect one’s self especially from the intake of any tobacco product which leads to oral cancer.

The sessions concluded with all the participants taking a pledge to keep Assam Don Bosco University campus Tobacco-Free by saying NO to TOBACCO PRODUCTS in every sense. It was indeed a day of learning and becoming aware of tobacco as a threat for life and the future of youth in our country.

## Lecture Series on Innovative Teaching Methods, 2 – 8 March 2022

The Department of Education from the Assam Don Bosco University, Tapesia Campus the National Level Lecture Series on the theme titled: *“Pedagogy of the 21st Century – innovative teaching methods”* held from 2nd March 2022 - 8th March 2022. There were a number of 449 participants who registered for the programme. The lecture series were delivered considering six areas: Educational Technology, Techno & Non-Techno Pedagogy, Cognitive Pedagogy, Innovative Pedagogy, and Mental Health in Pedagogy. The first day, Ms. Ritu Sarkar introduced the speaker Dr Khem Chand Kapoor (Assam Don Bosco University), who led the

participants through this intriguing discussion on the topic: “Implications of Instructional Technology in the 21st-century”. The second day’s session on Techno Pedagogy was led by Dr Amar Upadhyay (Dibrugarh University). He began with the six basic questions of teaching-learning process- What to teach? How to teach?, Why to teach?, Whom to teach? Where to teach? And When to teach?, for an effective pedagogy. Third day, the topic of the lecture was on “Cognitive Pedagogy: Learning from Cognitive Science” by Dr Krishna Kalita (KBVSAS University, Assam). The participants received an insight on 21st Century Pedagogy and enlightenment with meaning of Cognitive Pedagogy and the Philosophies of the 21st Century. On the fourth day, Dr Boyillapalli Venkata Rao (Nagaland University, Kohima) the resource person, presented the topic: “Non-Techno-Pedagogy. “Understanding Innovative Pedagogies: Ways into the Process of Educational Transformation”, was delivered by Dr Habibullah Shah (University of Kashmir). He began his lecture by explaining that Innovative Pedagogy is the combination of innovative and pedagogy. He explained the different types of Educational Innovation (Pedagogical Technological, Scientific and Methodological). Mr Sumit Dutta had an interactive session on “Let's Talk Our Minds Out: Mental Health & Well- Being in Pedagogy from NERIE, Shillong. It was an interactive-transitive and transformational lecture, which was presented in a Socratic-dialogical way through the question and answer style which was very responsive in the presentation.

## **Workshop - Data Analysis in the Psychology, 25 March 2022**

Workshop was held on *Data Analysis* in the Psychology department on 25<sup>th</sup> March, 2022. Dr. Maria Choudhury, Dr. Koninika Mukherjee and Dr. Chandita Baruah were the resource persons from the department. The workshop was divided into three sessions and the resource persons delivered lectures on the topics of descriptive analysis, generating the descriptive statistics table consisting of measures of central tendency, measures of variability, skewness, and kurtosis and interpretation of the methods, inferential statistics and qualitative analysis. The participants were also introduced to the SPSS software. The session also included analysis of qualitative data using the Thematic Analysis.

## **School of Fundamental and Applied Sciences**

### **Academic Physics Prize 2021, 1 April 2021**

The third Foundation Day of Physics Department was celebrated on 1<sup>st</sup> April 2021 at Tapesia Campus. On this occasion, the “Academic Physics Prize 2021” was awarded to Prof. K. D. Krori, in recognition of his exemplary contribution to physics teaching and physics research. The selection committee consisted of three Physics Department Heads of different universities and other senior physicists. The programme, held in the Auditorium began with a welcome song by



MSc Physics final semester students, followed by short speeches from the Director of the School of Fundamental and Applied Sciences, Dr. Monmoyuri Baruah, HoD of the Department, Dr. Nganngom Aomoa, and Dr. Samrat Dey, former Head of the Department. The speeches were followed by the awarding ceremony of 'Academic Physics Prize 2021' to Prof. K.D. Krori. The award carries a prize money of Rs. 10,000. In his acceptance speech, Prof. Krori emphasised the importance of mathematics in physics citing examples of various physicists starting from Sir Newton to his own teacher, Prof. S. N. Bose. The programme ended with cake cutting and refreshments.

## Symposium on Particle Physics and related topics 2021, 28-29 October 2021

A Symposium on Particle Physics and related topics was held by the department of Physics at Tapesia. on 28 -29 October 2021. There were 6 lectures by the invited speakers, Prof. Amol Dighe, TIFT, Prof. Kalpana Bora, GU, Dr. Subhaditya Bharttacharya, IITG, Dr. Debasish Borah, IITG, Dr. Sovan Chakraborty, IITG and Dr. Prabwal Phukon, Dibrugarh Univ on the topics Neutrino Physics, Higgs and BSM Physics, Dark Matter, Neutrino Astroparticle, Introduction to String Theory. 81, both national and international participants benefitted.



## International Symposium on Recent Advances in Mathematics and Applications, 28 October 2021



The Department of Mathematics organized an online International Symposium on 28th October, 2021 entitled "International Symposium on Recent Advances in Mathematics and Applications". Four noted mathematicians from different parts of the world were invited as the Speakers for this symposium. Prof. Xiaoying Han presented her talk on the topic 'Lattice Model from Neural Network' which was followed by the

talk on 'Time Scale' by Prof. Martin Bohner. The third speaker Prof. Stefano Galatolo presented his topic 'The Existence of Induced Order: a computer-aided proof' and the last speaker of the symposium Prof. Ishi Shihoko spoke on 'Singularities on Algebraic Varieties'. Each speaker engaged with the participants with question-and-answer sessions at the end of their presentation. The symposium ended with a vote of thanks

from the Head of the Department, Dr. Hemen Bharali, for a successful completion of the symposium.

## National Mathematics Day-2021 commemoration of Birth Anniversary of Srinivasa Ramanujan, 20 December 2021

Every year on December 22, India celebrates the “Birth Anniversary of Srinivasa Ramanujan” as the “National Mathematics Day”. The department of Mathematics, ADBU has planned to pre-celebrate “National Mathematics Day-2021” on Dec 20, 2021. On this occasion Department has organized a one-day lecture session in offline cum online mode. Renowned mathematician, Dr. Anupam Saikia, Professor in Department of Mathematics, Indian Institute of Technology, Guwahati was invited to deliver lecture. Dr. Anupam Saikia gave his talk on the topic “The fascinating world of numbers and their applications.” The talk was attended by around 90 students of the department.



## PI DAY and International Day of Mathematics- 2022, 14 March 2022

On 14th March, Monday, the Department of Mathematics, Assam Don Bosco University, Tapesia campus has observed Pi-day and International Day of Mathematics- 2022 with some activities involving the teachers and students of the department. Prof. Dhiren Kumar Basnet Department of Mathematics, Tezpur University was invited as guest speaker for the lecturer arranged for this occasion. Prof. Basnet has delivered a talk on basics of mathematics and its applications. After the talk, the students had participated in the speech competition and reciting digits of PI.



## Webinar sessions on “Applications of Riemann Integration and Metric Spaces”, 20-24 December 2021

The webinar on “Applications of Riemann Integration and Metric Spaces” was organized by Department of Basic Sciences, School of Technology, Assam Don Bosco University at Azara Campus to give the students an overview of the topic and enrich them with some ideas of Computational Mathematics. The resource persons, Dr. Aniruddha Bora, Research Associate, Brown University, Rhode Island, USA, Dr. Debashish Bhattacharjee, Assistant Professor, Gauhati University, Assam, India and Dr. Bamdeb Dey, Assistant Professor, Assam Don Bosco University gave interesting lectures on various applications using real life scenarios.



# **School of Commerce and Management**

## **International Yoga Day, 21 June 2021**

The international yoga day was a very subdued event as the city of Guwahati was into a second lockdown due to the Covid19 pandemic. The resident staff of the department of management at DBIM carried out the usual Yoga drills individually on campus and in their homes.

Official links to Yoga day celebrations sent by AICTE and UGC were shared among students and staff of DBIM so that they can view these and become aware about the benefits of Yoga.

## **Workshop on Questionnaire Design, 20 September 2021**

On 20th September 2021, the Department of Commerce conducted a workshop on Questionnaire Design with Dr. Rashmita Baruah, Amarjit Dev, and Pramod as the resource persons. A brief idea about research and the ways of conducting research were highlighted and the meaning and importance of questionnaire were explained. In addition, the different kinds of information which are provided by the questionnaire were discussed in detail including identification information, demographic information and problem solving information. The students were also taught various types of questionnaires such as open ended, closed ended etc. Students also learned how to store data collected from questionnaire on google sheet and were tasked to create questionnaire so that they can have a first-hand experience of questionnaire designing.

## **Workshop on Accounting Software, 22 September 2021**

On 22 September 2021, the Department of Commerce, Assam Don Bosco University organized a workshop on "Accounting Software" for the students of B. Com 5th Semester and M.Com 3rd Semester at the Computer Lab, Azara campus. The workshop was conducted by Dr. Nabasmita Bordoloi and Rimakhi Borah. The main objective of the workshop was to provide skill-based knowledge in the field of computerized Accounting.

The workshop started with Ms Rimakhi Borah giving a lecture on essentials of accounting software Tally ERP 9, which is widely used in accounting. The second session conducted by Dr. Nabasmita Bordoloi demonstrated the creation, shutting as well as selection of a Company in the Tally Software. The participants were taught various ways of editing the features concerning the accounting, inventory and taxation & statutory as per the requirements of the company. She also taught students to prepare the different ledgers and pass the different vouchers entries in the tally Software. The workshop ended with a Q&A session where the participants cleared their doubts.

## **Webinar on Commodity Derivative Market, 28 September 2021**

The Department of Commerce organized a Webinar on Investors Awareness Programme on Commodity Derivative Market in Collaboration with Gurukul Edutech (NCDEX) on 27 September 2021 for the students of B.Com, BCA & M.Com final year students. The main aim of the webinar was to make the students aware

about investing in the securities markets. Mr. Jyotirmoy Kashyap, Freelance Corporate Trainer conducted two sessions. In the first session, he highlighted about the concept of investment and the difference between investment and savings, an introduction on the securities markets and the various types of securities available in the market, why one should invest in these securities and how to open up a trading account. In the second session, he covered topics on commodity derivatives markets in India, which includes the functioning of commodity exchanges, its benefits & the key function of commodity exchange. He also introduced Online Trading, its benefits and the do's and don'ts of trading in securities. The webinar concluded with a short session for the students to clear their doubts regarding the commodity- derivatives market.

## **Vigilance Awareness Week 25 - 31 October 2021**

The Vigilance Awareness Week was observed from October 25 to October 31. All the MBA students took their vigilance pledge and have been awarded certificates regarding the same from the central vigilance department.

## **National Education Day, 11 November 2021**

The MBA students were asked to contribute essays on the life and work of Maulana Azad whose birthday is remembered as the National Education Day.

## **Constitution Day and NAAC visit, 26 November 2021**

Dr. B P Sanjay (Former VC, Central University of TN), Professor, Dept. of Communication, Manipal Institute of Communication and Dr. Panchanan Das, Professor, Department Of Economics, University Of Calcutta, visited the ADBU Kharghuli campus for cycle 2 of ADBU NAAC accreditation. Dr (Fr) P D John welcomed the peer team members and Mr. Chandan made the departmental presentation. The visitation started at 9:15 a.m. and concluded by 11:40 a.m.

The Constitution Day was observed as part the departmental presentation made to the NAAC peer team.

## **Industry Visit to Bhabani Offset & Imaging System Pvt, 11 December 2021 and 8 January 2022**

The MBA first-year students made their industrial visit to BHABANI Offset & Imaging System Pvt. Ltd on the 11th of December in the morning. The entire group of students was accompanied by two faculty members, viz. Sir. Pradeep Kumar Deka, assistant professor and Ma'am Priyanka Singh, assistant professor. The students got exposure to different sections of the workshop and wewas explained to them how to implement different types of machines for a different kind of printing and binding for different purposes.

The students were given a brief idea about different and sophisticated machines the industry works with, like the sewing machine, lamination machine, and huge black and white and color printing machine, CTP aluminum plates, and the like. A majority of the students said that this visit was their first visit to the industry, and they learned about how the manufacturing process happens in the industry. Students also said

they could associate the production and manufacturing process with what they learned in theory with real production scenarios in industry. The second-year students visited the same place on January 8, 2022, accompanied by Mr. Amal Dev Sarma.

### **Library Month Prize Distribution, 16 December 2021**

The prize distribution of the Library Month events was organized along with graduation day program for the short-term vocational courses conducted on campus. Sri Ranjit Swargiary, ACS Additional Commissioner, Guwahati Municipal Corporation, was the Chief Guest and Dr Mrinmoyee Baruah, Trustee Secretary of Deepsikha, a trust for cancer care, was the Guest of Honour.

### **Cultural Day, 5 March 2022**

The MBA students observed the annual cultural day after a long gap of two years. Students came dressed in their best traditional attire. The Chief Guest was the director who himself was dressed in attire representing multiple places in the North-East. The students organized several small games which were engaging and several performances which were delightful. The event concluded with the declaration of Mr. and Miss DBIM. Mr. DBIM was Justin Gonmei and Miss DBIM was Rhea Begum.

### **International Women's Day 8 March 2022**

International Women's Day was observed by the MBA students, faculty, and staff on March 8. There was a brief 2-hour program from 3:00 p.m. in the afternoon. The highlight of the program was a presentation on women power by the director. Students from the opposite gender had a few performances to pay tribute to their female counterparts specifically and all the women in general.

# In focus: Best Practices of ADBU

## BEST PRACTICE-1

### Comprehensive Care System (CCS)

**Objective:** ADBU's objective as a Higher Education Institution is to transform young adults into dependable human beings. The procedures and activities have been designed to achieve this goal have evolved into a system, the Comprehensive Care System (CCS). Its specific objectives are

- Creating an enriching learning environment embedded with spiritual inspiration for imbibing universal human values, ensuring that confusion, grievance and stress are resolved early on.
- Providing an engaged joyful life by providing platforms and opportunities to exercise inborn and acquired talents targeting cultural harmony and leadership quality.
- Providing training and guidance for future employability / entrepreneurship.

**Context:** This best practice flows directly from ADBU Vision: moulding "intellectually competent", "morally upright", "socially committed" and "spiritually inspired" persons at the "service of India and the world" of today and tomorrow, so that every graduate manifests the desired attributes.

- Intellectual competence results from designing and teaching an up-to-date curriculum required by today's industry.
- Moral Uprightness arises from personal conviction and acceptance of moral values taught and inculcated into our graduates.
- Social commitment programs are organised to make our students aware that they are among the privileged 5% population of our country and they have a responsibility towards the remaining 95%.
- Spiritual Inspiration is instilled by making them reflect on the meaning and goal of life and the role of the Divine in their life's journey.

These attributes make graduates dependable and competent human beings enabling them to make a positive difference to the society as young adults and ever after.

**The Practice:** CCS is implemented as follows

#### A. Personality Development through moral values and spiritual inspiration:

- **Daily Morning assembly** of the university community before starting classes. It's time for
  - Announcements
  - Felicitating achievers
  - Sharing a valuable thought or experience to give inspiration for the day
  - Praying together for God's blessings.

- Special assemblies are organized to celebrate events of national and societal importance.
- **Student Development Program**
  - Every semester, for every class, inputs given following a master plan during a 3-day workshop on
    - Ethics and values
    - Cultural harmony
    - Working in a group
    - Leadership qualities
  - Induction Program organised for the first semester students. One sample program is in the link below: [https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Sample\\_Induction\\_Programme.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Sample_Induction_Programme.pdf)
  - Internal as well as external Resource Persons are engaged.
- **Mentoring System:**
  - Every student is assigned a mentor, a faculty member from the student's department
  - Each faculty member is assigned 15 – 20 mentees.
  - Mentor-mentee relationship continues for the entire duration of the programme. Ensuring day-to-day care of the students during the whole duration of study
  - Mentor maintains a file for each mentee, records
    - Personal details
    - Academic background
    - Contacts of parents
    - Academic records in this university
    - Co-curricular and extra-curricular engagements and achievements
    - Problems faced if any and details of how they were resolved, sample of mentoring files are available at : [https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Sample\\_Mentoring\\_Files.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Sample_Mentoring_Files.pdf)

**B. Promoting Joyful Living, Developing Leadership Qualities,** building an inclusive community through following entities:

- **Campus Association:**
  - Consists of representatives from students, faculty, staff and management.
  - Student representatives are democratically elected, one boy and one girl from each class.
  - Class representatives elect their own Student Coordinator and two Assistant Student Coordinators, a boy and a girl. Thus gender bias is eliminated.
  - The campus association plans and executes co-curricular and extra-curricular activities. The link below gives the notification for the various years regarding roles and responsibilities. [https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Campus\\_Association\\_Notification\\_Roles\\_Responsibilities.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Campus_Association_Notification_Roles_Responsibilities.pdf)
- **Student Activity Clubs:**
  - All students are enrolled in one or more clubs.
  - Discipline specific **co-curricular** clubs enhance classroom learning.
  - **Extra-curricular** clubs like Music & singing, Dance, Drama, Art & Craft, Literary and sports clubs organize events and competitions to bring out the talents of students.
  - Every club has an **elected executive body** of students and nominated faculty advisors.
  - Many students develop their leadership potential; all learn to work in a team carrying out club-activities.
- **Entities to prepare for future careers:**

- **Training and Placement Cell** provides soft-skill training, assistance for internship in industries and job placements.
- **Entrepreneurship Development and Incubation Centre** creates awareness and guides students for entrepreneurship.
- **Career Guidance Cell** informs and guides students for higher studies and competitive examinations.
- **Institutional Innovation Cell**, with the collaboration of academic departments and clubs, provides research orientation and promotes an innovative mindset in the students

## BEST PRACTICE-2

### Blended Teaching-Learning and Evaluation System

**Objective:** A judicious mix of offline and online methods are used for teaching, learning and evaluation. Category-wise, objectives are:-

- Continue with the conventional offline methods of teaching- learning in the class rooms and traditional methods of evaluation.
- Include online methods -
  - Provide opportunity for learning ‘anytime’ and ‘anywhere’ beyond routine hours for better utility of ‘off hours’. Using online formative assessment for continuous learning is an added advantage.
  - Offer additional learning materials from authentic valuable sources
  - Conduct part or whole of In-semester and End semester Examinations in online mode to overcome difficulties that may come all of a sudden.

### The Context

- Today’s students are very familiar and are even addicted to devices for online access for entertainment and social communication. Online teaching provides a welcome alternative to classroom teaching for such students
- High quality online resources in synchronous / asynchronous mode are available like NPTEL, SWAYAM, spoken Tutorials, webinars, eBooks. These provide an opportunity to the students to be taught by experienced and expert faculty from reputed institutions, using a communication medium they are comfortable with.
- There are many free online platforms available for teaching – Google Classroom, Google Meet, Zoom, MOODLE, etc.
- In case of forced shutdown of institutions as in COVID-19, online mode is the only option.
- The Internet connectivity is not reliable in rural areas. Hence a blend of synchronous and asynchronous mode of teaching is desirable.

### The Practice

- Spoken Tutorial: Our University has been collaborating with IIT Bombay in the Spoken Tutorial project from 2015. [https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/ABDU as Resource Centre & Knowledge Partner of IIT Bombay.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/ABDU%20as%20Resource%20Centre%20&%20Knowledge%20Partner%20of%20IIT%20Bombay.pdf) We adopted Spoken Tutorials in our regular teaching-learning from 2015 and currently 26 tutorials are available in our institutional intranet including C/C++, Java, Latex, Linux,

Python, PHP and MySQL, SCI Lab, QCad and Advanced C. This has been embedded into our laboratory curriculum.

- NPTEL: Video lectures for around 56000+ hours videos of NPTEL (National Programme on Technology Enhanced Learning) courses are made available in our intranet for our faculty, staff and students. (<http://14.139.209.82:8002>) through which the university community gets access to the expertise available in the seven premier IITs and IISC, Bangalore. Faculty members suggest the courses to the students for additional learning related to their regular courses in their curriculum. We have also become an NPTEL Local Chapter providing opportunities for certification in NPTEL courses. That enhances one's skill set in the CV. Credit transfer from such certification is being considered for the campus degree programs. Both students and faculty members are motivated and are benefiting from this facility. See list at: [https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Certification\\_by\\_Faculty\\_&\\_Students\\_NPTEL\\_Courses.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Certification_by_Faculty_&_Students_NPTEL_Courses.pdf)
- COVID-19 challenged us to adopt new ways of teaching and learning. Relying on our earlier experience of working in online mode, we ventured into a fully online mode of teaching. Study materials (videos, presentations and text handouts) were prepared and shared with students ahead of scheduled classes. Online class hours were utilised for further explanation and clearing of doubts. To ensure learning outcomes are achieved, at the end of every class, few questions are given to the students to answer and submit within stipulated time. This also helped to monitor the attendance of students. Reports of online classes and tests available at:  
[https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Online\\_classes\\_during\\_COVID-19.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Online_classes_during_COVID-19.pdf),  
[https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Internal\\_Assessment\\_Evaluation\\_during\\_COVID-19.pdf](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Internal_Assessment_Evaluation_during_COVID-19.pdf)
- End semester examinations were conducted online using the platform eVeritas – University18, developed for our distance education programs. For this proctored examination system, the computer generates a unique question paper of similar standard for each examinee by random selection of questions from a bank of questions. The rules for the random selection of questions are encoded in a separate template called Regulations. The template incorporates Bloom's Taxonomy levels for comprehensive assessment of the entire syllabus. Sample Regulation and question bank can be found at:  
[https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Sample\\_Regulations\\_&\\_Questions.xlsx](https://documents.dbuniversity.ac.in/naacdocs/criteria07/7.2.1/Sample_Regulations_&_Questions.xlsx)
- Use of MOODLE as an LMS: Apart using Google Classroom, Google Meet Zoom, WhatsApp, we have adopted MOODLE as an LMS and trained our faculty to use it effectively.

## Updates on Placement Activities at ADBU

The 2021-22 batches of graduates and post graduates have now ventured into the market with new aspirations and challenges awaiting their path. The season has definitely shown lot of promise with some big name coming for campus. To name a few, TCS, Capgemini, Cognizant, Tech Mahindra, Automatic Data Processing, Indigi Consulting & Solutions , Dalmia Cements and many more had conducted its Campus Drives and 90 offers were made to the students who performed as per their expectations.

The Training and Placement Cell is in constant touch with the outgoing students and is also organizing Drives as and when feasible. There are quite a number of companies who are in pipeline and the drives are being organized frequently.

The Training schedule covered in the last semester included the Aptitudes Test, 2 in total. The comprehensive results have been shared with the students. The results indicate the response and sincerity of a student towards these tests which will be instrumental for the jobseekers. The Group Discussion Classes have been concluded. Sessions of CV Preparation have also been conducted successfully to give the final year students, an in-depth understanding of the purpose of CV and other relevant facts with examples.

As the summer break started, the students from most of the branches made their way towards the Summer Training / Internship destinations and completed. The reports are being submitted along with the certificates. Some of the organizations where the students have done the training are Airport Authority of India, Indian Oil Corporation Ltd, Oil India Limited, PWD, NHAI, APDCL, MeECL, Internshala, Udemy and many more.

| COMPANY NAME               | Package LPA |
|----------------------------|-------------|
| ADITYABIRLA CAPITAL        | 5.5         |
| ALOHA TECHNOLOGY           | 5           |
| APDCL                      | 2.5         |
| AUTOMATIC DATA PROCESSING  | 45          |
| BYJUS - FACULTY PROFILE    | 10          |
| CAPGEMINI                  | 16          |
| CHOLAMANDALAM FINANCE      | 12.5        |
| COGNIZANT                  | 12          |
| CRTD Technologies Pvt. Ltd | 170         |
| DALMIA CEMENTS             | 8           |
| DELHIVERY                  | 3           |
| DREAMGAINS FINANCIALS      | 15          |
| EASTERN MEDICAL SUPPLIES   | 4.5         |
| ENVISION                   | 2.4         |
| FIIT-JEE                   | 3.2         |
| HALFBRICK STUDIOS          | 32          |
| HDFC AMC                   | 7.8         |
| HDFC AMC, FIIT-JEE         | 2.6         |
| IDFC FIRST BANK            | 2.8         |

|  |       |
|--|-------|
| i-exceed TECHNOLOGIES                      | 4.67  |
| INDIGI CONSULTING & SOLUTIONS              | 15.84 |
| INDUSIND BANK                              | 6.54  |
| ITC LIMITED                                | 4     |
| KARTHIKA CONSULTING & SOLUTIONS (WEASSIST) | 2.64  |
| PANTALOONS                                 | 4.5   |
| RDC CONCRETE                               | 3     |
| RELIANCE DIGITAL                           | 6.54  |
| RELIANCE JIOMART                           | 13.08 |
| SHADOWFAX                                  | 4     |
| SOUTH INDIAN BANK                          | 15    |
| TATA CONSULTANCY SERVICES                  | 3.37  |
| TATA CONSULTANCY SERVICES - BPS            | 2.5   |
| VODAFONE                                   | 4     |
| WIPRO TECHNOLOGIES                         | 3.5   |

# Research Activities of ADBU in 2021-2022

## Faculty Development Program on Academic Research, 27 - 31 August 2021

The Research and Development cell of Don Bosco College of Engineering and Technology organised a five day Faculty Development Program on Academic Research particularly for the faculty members of the School of Technology from 27-31 August 2021 in blended mode (online and offline). The FDP commenced with the inaugural speech by Vice chancellor Fr. (Dr.) Stephen Mavelly. In his speech, he spoke on the importance of research in higher educational institutions and urged all to have research publications both for personal as well as towards the upliftment of the institution. Prof. J.N. Vishwakarma, Director of Research, ADBU gave a lecture on Orientation for Academic Research and discussed on the various factors to be considered for the writing of a research paper such a choosing attractive and appropriate research title, going through thorough literature survey, writing references in proper format etc. He advised the faculty members to write research proposals which are sound, convincing, and authentic to submit to the funding agencies like DST, DBT, AICTE. Dr. Hirakjyoti Hazarika, Librarian, gave an insightful overview of the electronic resources for Academic Research. Further he demonstrated library web desk of ADBU and he introduced the “National digital library.” Dr. Supriyo Sen, Assistant professor, Department of Biosciences, ADBU spoke about IP and associated aspects. Prof. A.K Das, Department of Design, IIT Guwahati enlightened the faculty members to know the chronology of a research work and to later convert it into a product. By the end of the Faculty development Program 23 Research Projects have been prepared for submitting to various funding agencies.

## Report of PhD Course Work (April 2021-December 2021)

The course work for the newly admitted PhD scholars of 2021 batch began on 21<sup>st</sup> June 2021. The total number of admitted scholars was 66 from across varied Departments. The mode of the classes was through google meet (online) due to Covid-19 pandemic. The session began with the inaugural function at 10:00 AM with the invocation of God’s blessings by Rev. Fr. Joseph Nellanatt, followed by welcome address by Rev. Fr. Dr. Johny Jose, the Registrar of the University. Rev. Fr. Dr. Stephen Mavelly, the Vice-Chancellor also addressed the research scholar and Prof. JN Vishwakarma, Director of Research oriented the scholars about the course after which administering of oath took place led by the Vice Chancellor. The function ended with the vote of thanks by Prof. Shakuntala Laskar at 10:45 AM.

After the inaugural function, the sessions for the classes was handed over to the resource persons. The courses on Research Methodology and Introduction to Literature Review for School of Sciences and Technology were taken up by Dr. Uzzal Sharma while for School of Social Sciences and Humanities the courses on Research Methodology and Introduction to Literature Review were taken up by Prof. KC Kapoor. The course on Research and Ethics was taken by Prof. Shakuntala Laskar for all the Schools. Further the Subject Specific Courses was taken care by the concerned departments. A mock test was also conducted on 4<sup>th</sup> December 2021 before the commencement of the course work written examination in order to ensure that the examination is conducted smoothly. A total of 49 research scholars attempted the mock test, whereas 17 of the scholars could not attempt due to technical glitches. The course work ended with a

written examination and Literature Review Presentation which began from 7<sup>th</sup> December 2021 to 9<sup>th</sup> December 2021.

The results of the coursework conducted between June to December 2021 was published on 22/12/2021.

The total number of students who appeared for the examination: 65  
 Number of eligible students: 62  
 Pass percentage: 95.34%

## Research Proposal Presentation from April 2021 - March 2022

A total of thirty two Researcher Scholars have presented their research proposals during April 2021 to March 2022. The details are presented in the following table:

| S/N | Scholar/<br>Department                              | Supervisor                 | Title of the proposal  | Date of<br>Presentation |
|-----|---|----------------------------|--|-------------------------|
| 1   | Avijit Sarkar<br><b>Education</b>                   | Dr. Tania Sur Roy          | Gamification in education: A study on its effectiveness in teaching mathematics at the secondary level   | 21//07/2021             |
| 2   | Barry Cooper<br>Hynniewta<br><b>Microbiology</b>    | Dr. Probin Phanjom         | Understanding male infertility with special emphasis on sperm DNA fragmentation and genital tract infections   | 21//07/2021             |
| 3   | A. Christu<br>Savarirajan<br><b>Education</b>       | Prof. KC Kapoor            | Effectiveness of social emotional competency development (SECD) strategies for enhancing SEC of school teachers  | 21//07/2021             |
| 4.  | Indu Chetry Das<br><b>Education</b>                 | Dr. Zacharias Tirkey       | Status of inclusive education with reference to children with special needs (disabilities) in elementary and secondary government schools of lower Assam: A study                | 21//07/2021             |
| 5   | Shiludi<br><b>Biochemistry</b>                      | Dr. Maitrayee<br>Swargiary | A study of prevalence of non-alcoholic fatty liver disease (NAFLD) in the Northeast using non-invasive methods   | 21//07/2021             |
| 6   | Kliret Terangpi<br><b>Botany</b>                    | Dr. Geetashree Bora        | Comparative study of <i>Canarium</i> species with respect to their morphological and anatomical characteristics and development of methods to enhance the regeneration potential | 21//07/2021             |
| 7   | Bhupen Ch.<br>Barman<br><b>Mechanical<br/>Engg.</b> | Dr. Vikramjit Kakati       | Ergonomic design of a hydro pack system to carry water by women in the hilly terrain of North East India   | 21//07/2021             |
| 8   | Daniel Dabitlang<br>M. Kajee<br><b>English</b>      | Dr. Nabamita Das           | A study of Artaudian dramatic techniques in the selected plays by Samuel Beckett   | 21//07/2021             |
| 9   | Mrinmoy<br>Purkayastha                              | Dr. Hemen Bharali          | A study of equivalence relation on p-Adic integers and an analytical approach to the   | 21//07/2021             |

|    |  |   |  |            |
|----|--|---|--|------------|
|    | <b>Mathematics</b>   |   | inverse and square root of some special class of p-Adic integers   |            |
| 10 | Emmanuel PJ<br><b>Psychology &amp; Counseling</b>              | Dr. Avinash De Sousa and<br>Dr. Chandita Baruah     | Phubbing, smartphone addiction, interpersonal relationship satisfaction and altruism among undergraduate students                            | 28/09/2021 |
| 11 | Chandrani Goswami<br><b>Psychology &amp; Counseling</b>        | Dr. Chandita Baruah                                 | Impact of positive parenting, parental self-efficacy and wellbeing on trait emotional intelligence and self-compassion among adolescents     | 28/09/2021 |
| 12 | Anil Roshan Mascarenhas<br><b>Social Work</b>                  | Dr. Jacob Islary                                    | Perceived stress and life satisfaction among elderly family members of alcoholic: A study at Mangalore, Dakshina Kannada District, Karnataka | 28/09/2021 |
| 13 | Shiny George<br><b>English</b>                                 | Dr. Nabamita Das                                    | Viktor Frankl's Logotherapy: Relevance and Application in William Shakespeare's Soliloquies in Hamlet and Macbeth                            | 28/09/2021 |
| 14 | Bhabani Baishya<br><b>Education</b>                            | Dr. Bonnie Amonge Crerar                            | A Study on Dimensions of Value-pattern in Relation to Family Environment and Socio-economic Status of B.Ed. Students                         | 28/09/2021 |
| 15 | Monalisha Chinmoy Sarma<br><b>Management</b>                   | Dr. Biju Mani Das<br>Dr. Irfan Ullah                | Customer Lifecycle Management of Mobile Telecom Industry – Its impact on postpaid subscribers in Assam Circle                                | 18/12/2021 |
| 16 | George Keduolhou Angami<br><b>NEIS</b>                         | Dr. Dominic Meyieho                                 | A study of political role and influence of Tenyimia in the transformation of political culture in Nagaland                                   | 18/12/2021 |
| 17 | Elizabeth Samuel<br><b>English</b>                             | Dr. Nabamita Das                                    | Analysing the plays of Ionesco: A Karen Horney approach  | 18/12/2021 |
| 18 | Fricia Hepzibah Phira<br><b>Psychology &amp; Counselling</b>   | Fr. Dr. James Joseph                                | Exploring ethnic identity and its relationship with depression and anxiety among the Khasi youth in Meghalaya                                | 18/12/2021 |
| 19 | Sampreeti Das<br><b>Psychology and counselling</b>             | Dr. Chandita Baruah                                 | Factors influencing Counsellor Self Efficacy among Practising Counsellors of North East India  | 18/12/2021 |
| 20 | Moitrayee Barman<br><b>Mass Communication</b>                  | Fr. Dr. Biju Nellisery                              | Impact of You Tube on Pre-School children's language development social skills   | 18/12/2021 |
| 21 | Biju Jacob<br><b>Chemistry</b>                                 | Dr. Sagar Sharma                                    | Computational study of Functionalized Naphthalene Diimide (NDI) Derivatives as organic hsemiconductors                                       | 18/12/2021 |
| 22 | Thyanswer Challam<br><b>Microbiology</b>                       | Dr. Vedant V. Borah<br>Dr. H. G. Lyngdoh            | Biodiversity and the activity of esterases in the gut microbiota across the life history of the moth pest <i>Conogethes punctiferalis</i>    | 18/12/2021 |
| 23 | Vaishali Kavathekar<br><b>Computer Science and Engineering</b> | Dr. Sarat Kumar Chettri<br>Dr. Amiya Kumar Tripathy | Assessment of urban land transformation and its impacts on urban micro-climates using spatio-temporal analysis                               | 18/12/2021 |

|    |  |  |   |            |
|----|--|--|---|------------|
| 24 | CMM Mansoor<br><b>Computer Science and Engineering</b>   | Dr. Sarat kumar Chettri<br>Dr. HMM. Naleer   | A study on Smart Healthcare System for Ambient Assisted living of older adults with Chronic Health Conditions   | 18/12/2021 |
| 25 | Flossie Bloomy<br>Ferryra Ch.<br>Marak<br><b>Physics</b> | Dr. Ngangom Aomoa                            | Studies on the use of plasma for water treatment  | 18/12/2021 |
| 26 | Anita Dongre<br><b>Biotechnology</b>                     | Dr. Syed Akhtar Husain<br>Dr. JN Vishwakarma | Study of various factors involved in recurrent pregnancy loss and medical advancement made so far in the area   | 18/12/2021 |
| 27 | Wimarithy K.<br>Marak<br><b>Zoology</b>                  | Dr. Y. Lokeshwor Singh                       | Inventory and systematics of fishes in the Northern flowing rivers of Meghalaya   | 23/02/2022 |
| 28 | Nilibo A.<br><b>Zoology</b>                              | Dr. Y. Lokeshwor Singh                       | Ichthyofaunal diversity of Tizu river system in Nagaland  | 23/02/2022 |
| 29 | Elina Aktarun<br>Ahmed<br><b>Zoology</b>                 | Dr. SK Dutta                                 | Diversity and distribution of butterflies with special reference to papilionids and nymphalids in Pancharatna hill and adjoining areas, Goalpara district, Assam, India               | 23/02/2022 |
| 30 | Syeda Tamanna<br>Yasmin<br><b>Microbiology</b>           | Dr. Monika Soni<br>Dr. Kardarpa K. Saikia    | Prevalence and antibiotic susceptibility of isolates of leucorrhoea among females attending gynaecology service from rural and urban regions of Kamrup Metropolitan district of Assam | 23/02/2022 |
| 31 | Ellora<br>Choudhury<br><b>Zoology</b>                    | Dr. Saibal Sengupta                          | Indigenous ornamental fish diversity of South Kamrup, Assam   | 23/02/2022 |
| 32 | Wimarithy K.<br>Marak<br><b>Zoology</b>                  | Dr. Y. Lokeshwor Singh                       | Inventory and systematics of fishes in the Northern flowing rivers of Meghalaya   | 23/02/2022 |

## Report on PhD Pre-Submission from April 2021 - March 2022

A total of thirteen research scholars have presented the pre-submission seminar from April 2021-March 2022. Three from Management, five from Social Work, one from Biotechnology, one from Mass Communication, one from Comparative Religion, one from education and one from English. The following table given below contains the details of it.

| Sl.No. | Name of the Scholar                  | Department | Thesis Title   | Date of Presentation |
|--------|--------------------------------------|------------|--|----------------------|
| 1      | Arunav Barua<br>DU2012PHD0027        | Management | Moderating effect of ethics in corporate governance and corporate social responsibility                              | 17/07/2021           |
| 2      | Indrajit Chatterjee<br>DU2013PHD0028 | Management | Entrepreneurial characteristics as determinant of business performance in micro and small entrepreneur in Darjeeling | 17/07/2021           |

|    |   |                      |   |            |
|----|---|----------------------|---|------------|
|    |   |                      | district, North Bengal, West Bengal   |            |
| 3  | Taithul Rita<br>Chinneihoi Zou<br>DU2016PHD0032 | Social Work          | Resilience of adolescents in the conflict state of Manipur: Spirituality and digital technology usage   | 17/07/2021 |
| 4  | Rosie Kalita<br>DU2017PHD0005                   | Social Work          | A critical study on counter insurgency operations and its ramifications in re-integrating the insurgents back to the main stream                                | 17/07/2021 |
| 5  | Arcadius Puwein<br>DU2016PHD0021                | Biotechnology        | An investigation on propagation, anti-cancer potential and chemical profile of PARIS POLYPHYLLA SMITH   | 19/07/2021 |
| 6  | Janet Mendonca<br>DU2014PHD0021                 | Education            | Embedding quality culture in higher education: A paradigm of assessment and accreditation   | 19/07/2021 |
| 7  | Rajani Karki<br>Chhetri<br>DU2014PHD0020        | Mass Communication   | Reconstructing Khasi ethnic identity on social media: A netnographic study on an online group   | 19/07/2021 |
| 8  | Victor Narzary<br>DU2013PHD0048                 | Social Work          | A study of land: Exploring its meaning and practices among the Bodos  | 02/11/2021 |
| 9  | Bibharani<br>Swargiary<br>DU2013PHD0049         | Social Work          | A study on widowhood: its status and experiences vis-à-vis Bodo movement  | 02/11/2021 |
| 10 | Joy Francis<br>DU2016PHD0012                    | Comparative Religion | Interpersonal relationship and mystical contemplation: A Teresian perspective   | 02/11/2021 |
| 11 | Daisy KJ<br>DU2016PHD0002                       | Social Work          | A study on the effects of psycho-social intervention program on promoting mental health of the children of migrant workers by strengthening their self-efficacy | 02/11/2021 |
| 12 | Amarjit Deb<br>DU2018PHD0001                    | Education            | Effectiveness of modular instruction and computer assisted instruction on the academic performance of post-graduate students in Commerce: An experimental study | 10/12/2021 |
| 13 | Stella Thomas<br>DU2014PHD0040                  | English              | Literature as activism: Socio-political issues in the novels of Toni Morrison   | 10/12/2021 |

## PhD Degree Awarded from April 2021 - March 2022

A total of Twenty one research scholars have been awarded the PhD degree from April 2021- March 2022. Four from Biotechnology, two from Electronics & Communication Engineering, four from Management, two from North East India Studies, six from Social Work, one from Mechanical Engineering, one from Computer Science & Engineering, and one from Education. The details of it are given below:

| Sl. no | Research scholar name       | Title of the thesis   | Department                              | Supervisor              | Viva Voce on | Degree Awarded                 |
|--------|-----------------------------|---|---|-------------------------|--------------|--------------------------------|
| 1      | Chandra Kanta Bhattacharjee | Impact of micro-RNA on inflammasome activation to understand the pathogenesis of diabetic nephropathy among type 2 diabetic mellitus individuals  | Biotechnology                           | Dr.PK Borah             | 05/07/2021   | Convocation 2021<br>18/10/2021 |
| 2      | Vidhya DS                   | Efficient realization and verification of mixed signal logic with differentially fed neural networks  | Electronics & Communication Engineering | Prof. Manjunath R.      | 05/07/2021   | Convocation 2021<br>18/10/2021 |
| 3      | Bijit Debbarma              | Marketing of handloom products produced through clusters: A case study of Tripura   | Management                              | Dr. KS Chakraborty      | 06/07/2021   | Convocation 2021<br>18/10/2021 |
| 4      | Monimugdha Bhuyan           | Rice culture among the Assamese Hindus in a rural context of Assam: An anthropological insight  | North East India Studies                | Prof. Birinchi K. Medhi | 06/07/2021   | Convocation 2021<br>18/10/2021 |
| 5      | Jessy MJ                    | Effectiveness of life skill training program to enhance mental health of young people: An intervention study of Kerala  | Social Work                             | Dr. Riju Sharma         | 06/08/2021   | Convocation 2021<br>18/10/2021 |
| 6      | Joby Mani                   | Role of rural tribal women in household decision making: A comparative study of self-help group and non-self-help group tribal women involved in micro credit and micro enterprise activities of Goalpara district of Assam | Social Work                             | Dr. Riju Sharma         | 06/08/2021   | Convocation 2021<br>18/10/2021 |

|    |                                 |  |               |   |            |                                |
|----|---------------------------------|--|---------------|---|------------|--------------------------------|
| 7  | Poly Varghese                   | Improved health security through RSBY - A study on the Munda tribe in the State of Jharkhand   | Social Work   | Dr. Melvil Pereira<br>Dr. Joseph Xavier | 06/08/2021 | Convocation 2021<br>18/10/2021 |
| 8  | Kumaresh Sarmah                 | Metamaterial and nanometamaterial based antenna design for wireless communication  | ECE           | Dr. Sunandan Baruah                     | 13/08/2021 | Convocation 2021<br>18/10/2021 |
| 9  | Tapu Ghosh<br>DU2015PH<br>D0041 | Isolation and characterization of ribosome in activating protein from <i>Trichosanthes dioica</i> with anti-cancer properties                                | Biotechnology | Dr. Keshab Barma                        | 13/08/2021 | Convocation 2021<br>18/10/2021 |
| 10 | Paul Punii                      | The Poumai Naga folklores: A historico-cultural study and identity formation through folktales, agricultural feasts, social organizations and customary laws | NEIS          | Dr. Dominic Meyieho                     | 13/08/2021 | Convocation 2021<br>18/10/2021 |
| 11 | Francis Sebastian               | The impact of mirror neuron based cause related marketing communication on customer attitude towards corporate image in India                                | Management    | Dr. Sam Thomas                          | 13/08/2021 | Convocation 2021<br>18/10/2021 |
| 12 | Johnson KP                      | A study on the mental health of senior secondary school students in Kerala in relation to the spiritual well-being and social support                        | Social Work   | Dr. Riju Sharma                         | 01/10/2021 | Convocation 2021<br>18/10/2021 |
| 13 | Davis KV                        | Information and communication technology in teaching-learning in Meghalaya   | Education     | Dr. Umarani Pappuswamy                  | 01/10/2021 | Convocation 2021<br>18/10/2021 |
| 14 | Siby Jose                       | Binary Economics: A  | Management    | Dr. Joseph I.                           | 10/12/2021 | Convocation                    |

|    |                   |   |                                |                          |            |                  |
|----|-------------------|---|--------------------------------|--------------------------|------------|------------------|
|    |                   | case study  |                                | Jijodey                  |            | 2022             |
| 15 | Suraj R. Marathe  | Application of six sigma methodology to increase the overall performance of hydraulic pressure die casting machinery and the process  | Mechanical Engineering         | Dr. Carmo Quadros        | 10/12/2021 | Convocation 2022 |
| 16 | Medari J. Tham    | Shallow parsing for Khasi   | Computer Science & Engineering | Dr. Pushpak Bhattacharya | 10/12/2021 | Convocation 2022 |
| 17 | Arcadius Puwein   | An investigation on propagation, anti-cancer potential and chemical profile of PARIS POLYPHYLLA SMITH   | Biotechnology                  | Dr. Sr. Shiny C. Thomas  | 20/01/2022 | Convocation 2022 |
| 18 | Rosie Kalita      | A critical study on counter insurgency operations and its ramifications in re-integrating the insurgents back to the main stream  | Social Work                    | Dr. Riju Sharma          | 20/01/2022 | Convocation 2022 |
| 19 | Arunav Barua      | Moderating effect of ethics in corporate governance and corporate social responsibility   | Management                     | Dr. Sangeeta Tripathi    | 23/02/2022 | Convocation 2022 |
| 20 | Dominic PT        | A participatory action research to understand farmers' suicide in India: A case study in Wayanad district Kerala  | Social Work                    | Sr. Dr. Molly K.         | 23/02/2022 | Convocation 2022 |
| 21 | Raffealla Nongrum | A study on genetic variation using molecular markers, morphometric characters, ultrastructure of gonada and chromosome among two different species belonging to the genus: Neolissochilus of Meghalaya, India | Biotechnology                  | Dr. R. N Bhuyan          | 23/02/2022 | Convocation 2022 |

## Report of Projects Sanctioned from April 2021-March 2022

The details of projects sanctioned from April 2021-March 2022 are described under the following table given below:

| Sl No. | Name of the Scheme/Project/ Endowments/ Chairs  | Name of the Principal Investigator/ Co Investigator (if applicable) | Name of the Funding agency | Dept.     | Academic year | Funds provided (INR in lakhs) |
|--------|---|---|----------------------------|-----------|---------------|-------------------------------|
| 1      | A Numerical modeling based comprehensive framework for wet land management targeting improvement of environmental health    | Dr. Nibedita Kapil  | DST, Govt.                 | Chemistry | 2021          | 58.96                         |
| 2      | Low cost mobile ventilator  | Dr. Bobby Sharma  | ASTEC, Govt.               | CSE       | 2021          | 9.00                          |
| 3      | An analytical algorithm to generate high current from solar PV module even in partial shading condition                     | Dr. Papul Changmai  | AICTE, Govt.               | EEE       | 2021          | 12.91                         |
| 4      | Experimental studies on breakdown of gases in a DC Glow Discharge and Dielectric Barrier discharge devices                  | Dr. Ngangom Aomoa   | RAC-S, GU (ISRO) , Govt.   | Physics   | 2021          | 6.84                          |
| 5      | A Numerical Modeling based Comprehensive Framework for wetland management targeting improvement of environmental health     | Dr. Nibedita Kapil  | DST, Govt.                 | Chemistry | 2021          | 58.97                         |
| 6      | Students' P   | Dr. Jyotirmoy Sarma   | ASTEC, Govt.               | Chemistry | 2022          | 0.10                          |
| 7      | Contemporary Economic Issues of Developing Countries  | Dr. Ploakshi  | ICSSR, Govt.               | Economics | 2022          | 0.25                          |
| 8      | Tandem Ring-Opening Cyclization/ Cycloaddition of Small Ring Heterocycles with Nucleophiles for the Assembly of Medicinally | Dr. Subhasish Roy   | SERB-TARE, Govt.           | Chemistry | 2022          | 18.3                          |

|    |   |  |   |             |      |       |
|----|---|--|---|-------------|------|-------|
|    | Important Heterocycles  |  |   |             |      |       |
| 9  | Students project  | Dr. Probin                                 | ASTEC,<br>Govt.   | Bio-science | 2022 | 0.10  |
| 10 | Students project  | Dr. Vedant                                 | ASTEC,<br>Govt.   | Bio-science | 2022 | 0.10  |
| 11 | Students project  | Dr. Jyotirmoy<br>Sarma                     | ASTEC,<br>Govt.   |             | 2022 | 0.10  |
| 12 | Students project  | Dr. Papul                                  | ASTEC,<br>Govt.   | EEE         | 2022 | 0.10  |
| 13 | Novel quinolone-ferrocene hybrids integrated with triazole, benzene and tetrahydropyrimidine rings: design, synthesis, structure elucidation and anti-malarial activity studies | Dr. Shunan<br>Kaping/Dr. JN<br>Vishwakarma | WOS-A,<br>Govt.   | Chemistry   | 2022 | 45.00 |
| 14 | Development of herbal garden on rare, endangered and threatened medicinal and aromatic plants in North east India   | Dr. Raj Kumar<br>Pegu                      | Ministry<br>of Health<br>and<br>family<br>Welfare,<br>Govt. | Botany      | 2022 | 10.80 |
| 15 | Amphibian diversity of Dehing Patkai National Park  | Dr. Bakhtiar<br>Hussiam                    | ASTEC,<br>Govt.   | Zoology     | 2022 | 7.30  |
| 16 | Student science project   | Danielson<br>Manner                        | ASTEC,<br>Govt.   | ECE         | 2022 | 0.20  |

# University at a Glance: Statistics

## Programmes of Study

In the University, currently 21 graduate, 22 post-graduate and 25 doctoral programmes are being offered on campus. 4 graduate and 9 post-graduate programmes are being offered online through DBU Global. The details are given in the tables below:

| Sl. No.   | Programmes                          | Degree and Discipline                             |
|---|-------------------------------------|---|
| <b>Undergraduate Programmes</b>                   |                                     |   |
| <b>School of Technology</b>                       |                                     |   |
| 1   | Bachelor of Technology              | BTECH - Civil Engineering                         |
| 2   | Bachelor of Technology              | BTECH - Computer Science and Engineering          |
| 3   | Bachelor of Technology              | BTECH - Electrical and Electronics Engineering    |
| 4   | Bachelor of Technology              | BTECH - Electronics and Communication Engineering |
| 5   | Bachelor of Technology              | BTECH - Mechanical Engineering                    |
| 6   | Bachelor of Computer Applications   | BCA - Computer Applications                       |
| <b>School of Commerce and Management</b>          |                                     |   |
| 7   | Bachelor of Commerce                | BCOM (Honours)                                    |
| 8   | Bachelor of Business Administration | BBA (Honours)                                     |
| <b>School of Humanities and Social Sciences</b>   |                                     |   |
| 9   | Bachelor of Arts                    | BA – Philosophy                                   |
| 10  | Bachelor of Arts                    | BA (Honours) – Economics                          |
| 11  | Bachelor of Arts                    | BA (Honours) – English                            |
| 12  | Bachelor of Arts                    | BA (Honours) – Psychology                         |
| 13  | Bachelor of Arts                    | BA (Honours) – Education                          |
| 14  | Bachelor of Arts                    | BA (Honours) – Mass Communications                |
| 15  | Bachelor of Arts                    | BA (Honours) – Public Administration              |
| <b>School of Fundamental and Applied Sciences</b> |                                     |   |
| 16  | Bachelor of Science                 | BSC (Honours) – Physics                           |
| 17  | Bachelor of Science                 | BSC (Honours) – Chemistry                         |
| 18  | Bachelor of Science                 | BSC (Honours) – Mathematics                       |
| <b>School of Life Sciences</b>                    |                                     |   |
| 19  | Bachelor of Science                 | BSC (Honours) – Botany                            |
| 20  | Bachelor of Science                 | BSC (Honours) – Zoology                           |
| <b>School of Professional Studies</b>             |                                     |   |
| 21  | Bachelor of Science                 | BSc in Hospitality and Hotel Management           |
| <b>Post Graduate Programmes</b>                   |                                     |   |
| <b>School of Technology</b>                       |                                     |   |
| 1   | Master of Technology                | MTECH - Computer Science and Engineering          |
| 2   | Master of Technology                | MTECH - Electrical and Electronics Engineering    |
| 3   | Master of Technology                | MTECH - Electronics and Communication Engineering |
| 4   | Master of Technology                | MTECH -Civil Engineering                          |

|   |                                   |  |
|---|-----------------------------------|--|
| 5   | Master of Computer Applications   | MCA - Computer Applications                      |
| <b>School of Commerce and Management</b>          |                                   |  |
| 6   | Master of Commerce                | MCOM   |
| 7   | Master of Business Administration | MBA - Business Administration                    |
| <b>School of Humanities and Social Sciences</b>   |                                   |  |
| 8   | Master of Social Work             | MSW - Social work                                |
| 9   | Master of Arts                    | MA Education                                     |
| 10  | Master of Science                 | MSC Psychology (Counselling Psychology)          |
| 11  | Master of Science                 | MSC Psychology (Clinical Psychology)             |
| 12  | Master of Arts                    | MA English                                       |
| 13  | Master of Arts                    | MA Public Administration                         |
| 14  | Master of Arts                    | MA Mass Communication                            |
| <b>School of Fundamental and Applied Sciences</b> |                                   |  |
| 15  | Master of Science                 | Physics  |
| 16  | Master of Science                 | Chemistry  |
| 17  | Master of Science                 | Mathematics                                      |
| <b>School of Life Sciences</b>                    |                                   |  |
| 18  | Master of Science                 | Biochemistry                                     |
| 19  | Master of Science                 | Biotechnology                                    |
| 20  | Master of Science                 | Microbiology                                     |
| 21  | Master of Science                 | Botany   |
| 22  | Master of Science                 | Zoology  |
| <b>Doctoral Programmes</b>                        |                                   |  |
| <b>School of Technology</b>                       |                                   |  |
| 1   | Doctoral Programme                | PHD - Computer Science and Engineering           |
| 2   | Doctoral Programme                | PHD - Computer Applications                      |
| 3   | Doctoral Programme                | PHD - Civil Engineering                          |
| 4   | Doctoral Programme                | PHD - Electrical and Electronics Engineering     |
| 5   | Doctoral Programme                | PHD - Electronics and Communications Engineering |
| 6   | Doctoral Programme                | PHD – Mechanical Engineering                     |
| <b>School of Commerce and Management</b>          |                                   |  |
| 7   | Doctoral Programme                | PHD – Management                                 |
| 8   | Doctoral Programme                | PHD – Economics                                  |
| 9   | Doctoral Programme                | PHD – Commerce                                   |
| <b>School of Humanities and Social Sciences</b>   |                                   |  |
| 10  | Doctoral Programme                | PHD - Social Work                                |
| 11  | Doctoral Programme                | PHD - Mass Communication                         |
| 12  | Doctoral Programme                | PHD - Language Studies                           |
| 13  | Doctoral Programme                | PHD - Comparative Religion                       |
| 14  | Doctoral Programme                | PHD - North East India Studies                   |
| 15  | Doctoral Programme                | PHD – Philosophy                                 |

|   |                    |                                 |
|---|--------------------|---------------------------------|
| 16  | Doctoral Programme | PHD – Education                 |
| 17  | Doctoral Programme | PHD -Psychology and Counselling |
| <b>School of Fundamental and Applied Sciences</b> |                    |                                 |
| 18  | Doctoral Programme | PHD – Physics                   |
| 19  | Doctoral Programme | PHD - Chemical Sciences         |
| 20  | Doctoral Programme | PHD – Mathematics               |
| <b>School of Life Sciences</b>                    |                    |                                 |
| 21  | Doctoral Programme | PHD – Biotechnology             |
| 22  | Doctoral Programme | PHD – Biochemistry              |
| 23  | Doctoral Programme | PHD – Microbiology              |
| 24  | Doctoral Programme | PHD – Botany                    |
| 25  | Doctoral Programme | PHD – Zoology                   |

## DBU GLOBAL

| Sl. No. | Programmes                                  | Degree and Discipline   |
|---------|---|-------------------------|
| 1       | Bachelor of Arts                            | BA - Philosophy         |
| 2       | Bachelor of Business Administration         | BBA                     |
| 3       | Bachelor of Commerce                        | BCOM                    |
| 4       | Bachelor of Computer Applications           | BCA                     |
| 5       | Master of Science in Information Technology | MSC                     |
| 6       | Master of Business Administration           | MBA                     |
| 7       | Master of Arts                              | Philosophy              |
| 8       | Master of Computer Applications             | MCA                     |
| 9       | Master of Arts                              | MA - Education          |
| 10      | Master of Arts                              | MA - Human Rights       |
| 11      | Master of Arts                              | MA - Mass Communication |
| 12      | Master of Commerce                          | MCOM                    |
| 13      | Master of Social Work                       | MSW                     |

## STUDENT DISTRIBUTION

### On Campus

| Programme  | Female | Male | Total |
|--|--------|------|-------|
| Bachelor of Arts (Honours) Economics                               | 20     | 43   | 63    |
| Bachelor of Arts (Honours) Education                               | 30     | 16   | 46    |
| Bachelor of Arts (Honours) English                                 | 134    | 66   | 200   |
| Bachelor of Arts (Honours) Mass Communication                      | 50     | 54   | 104   |
| Bachelor of Arts (Honours) Public Administration                   | 14     | 20   | 34    |
| Bachelor of Arts (Honours) Philosophy                              | -      | 97   | 97    |
| Bachelor of Arts (Honours) Psychology                              | 144    | 58   | 202   |
| Bachelor of Business Administration                                | 46     | 108  | 154   |
| Bachelor of Computer Applications                                  | 23     | 131  | 154   |
| Bachelor of Commerce (Honours)                                     | 49     | 80   | 129   |
| Bachelor of Science (Honours) Botany                               | 16     | 16   | 32    |
| Bachelor of Science (Honours) Chemistry                            | 22     | 7    | 29    |
| Bachelor of Science (Honours) Hospitality and Hotel Administration | 3      | 6    | 9     |
| Bachelor of Science (Honours) Mathematics                          | 14     | 18   | 32    |
| Bachelor of Science (Honours) Physics                              | 6      | 16   | 22    |
| Bachelor of Science (Honours) Zoology                              | 38     | 27   | 65    |
| Bachelor of Technology – Computer Science and Engineering          | 39     | 175  | 214   |
| Bachelor of Technology –Civil Engineering                          | 86     | 195  | 281   |
| Bachelor of Technology –Electronics and Communication Engineering  | 6      | 22   | 28    |
| Bachelor of Technology –Electrical and Electronics Engineering     | 9      | 48   | 57    |
| Bachelor of Technology –Mechanical Engineering                     | 3      | 52   | 55    |
| Master of Arts Economics   | 27     | 9    | 36    |
| Master of Arts Education   | 17     | 9    | 26    |
| Master of Arts English   | 86     | 28   | 114   |
| Master of Arts Mass Communication                                  | 8      | 10   | 18    |
| Master of Arts Public Administration                               | 15     | 10   | 25    |
| Master of Business Administration                                  | 14     | 53   | 67    |
| Master of Computer Applications                                    | 24     | 97   | 121   |
| Master of Commerce   | 57     | 38   | 95    |
| Master of Science Biochemistry                                     | 9      |      | 9     |
| Master of Science Bitotechnology                                   | 10     | 3    | 13    |
| Master of Science Botany   | 68     | 23   | 91    |
| Master of Science Chemistry  | 50     | 26   | 76    |
| Master of Science Mathematics                                      | 53     | 24   | 77    |
| Master of Science Microbiology                                     | 24     | 22   | 46    |
| Master of Science Physics  | 44     | 37   | 81    |
| Master of Science Psychology                                       | 72     | 14   | 86    |
| Master of Science Zoology  | 65     | 29   | 94    |
| Master of Social Work  | 153    | 53   | 206   |
| Master of Technology – Computer Science and Engineering            |        | 2    | 2     |
| Master of Technology –Civil Engineering                            | 12     | 6    | 18    |

|   |             |             |             |
|---|-------------|-------------|-------------|
| Master of Technology –Electronics and Communication Engineering | 2           | 3           | 5           |
| Master of Technology –Electrical and Electronics Engineering    | 8           | 8           | 16          |
| PhD Humanities  | 81          | 90          | 171         |
| PhD Science and Technology                                      | 77          | 85          | 162         |
| <b>Grand Total</b>  | <b>1728</b> | <b>1934</b> | <b>3662</b> |

## DBU GLOBAL

| Programmes                                  | F          | M          | Grand Total |
|---|------------|------------|-------------|
| Bachelor of Business Administration         | 102        | 36         | 138         |
| Bachelor of Commerce                        | 12         | 3          | 15          |
| Bachelor of Computer Applications           | 56         | 8          | 64          |
| Master of Business Administration           | 257        | 93         | 350         |
| Master of Arts in Education                 | 23         | 14         | 37          |
| Master of Arts in Human Rights              | 14         | 7          | 21          |
| Master of Arts in Mass Communication        | 2          | 4          | 6           |
| Master of Commerce                          | 6          | 5          | 11          |
| Master of Computer Applications             | 14         | 5          | 19          |
| Master of Science in Information Technology | 33         | 3          | 36          |
| Master of Social Work                       | 7          | 2          | 9           |
| PG Diploma/Diploma/Certificates             | 6          | 1          | 7           |
| <b>Total</b>                                | <b>532</b> | <b>181</b> | <b>713</b>  |

## GRADUATING STUDENTS in Convocation 2021

| Graduating students                              | Total number of students |
|--|--------------------------|
| Bachelor of Arts (Honours) in Economics          | 2                        |
| Bachelor of Arts (Honours) in Education          | 11                       |
| Bachelor of Arts (Honours) in English            | 53                       |
| Bachelor of Arts (Honours) in Mass Communication | 17                       |
| Bachelor of Arts (Honours) in Psychology         | 44                       |
| Bachelor of Arts in Philosophy                   | 24                       |
| Bachelor of Business Administration              | 26                       |
| Bachelor of Commerce                             | 42                       |
| Bachelor of Computer Applications                | 53                       |
| Bachelor of Science (Honours) in Chemistry       | 2                        |
| Bachelor of Science (Honours) in Mathematics     | 5                        |
| Bachelor of Science (Honours) in Physics         | 6                        |
| Bachelor of Technology                           | 185                      |
| Doctor of Philosophy (PhD)                       | 27                       |
| Master of Arts                                   | 4                        |
| Master of Arts in Education                      | 10                       |
| Master of Arts in English                        | 31                       |
| Master of Business Administration                | 136                      |
| Master of Commerce                               | 43                       |

|                                  |             |
|----------------------------------|-------------|
| Master of Computer Applications  | 62          |
| Master of Science                | 59          |
| Master of Science in Botany      | 33          |
| Master of Science in Chemistry   | 41          |
| Master of Science in Mathematics | 30          |
| Master of Science in Physics     | 41          |
| Master of Science in Psychology  | 21          |
| Master of Science in Zoology     | 43          |
| Master of Social Work            | 90          |
| Master of Technology             | 4           |
| Post Graduate Diploma            | 5           |
| <b>Grand Total</b>               | <b>1150</b> |

| UNIVERSITY GOLD MEDALISTS |                                  |   |      |
|---------------------------|----------------------------------|---|------|
| Name                      | Department                       | Programme   | CGPA |
| Roshan Xalxo              | Philosophy                       | Bachelor of Arts (BA) - Philosophy                                | 9.21 |
| Rajoshree Singha          | English                          | Bachelor of Arts (BA Honours) - English                           | 8.68 |
| Debadrita Sarma           | Psychology                       | Bachelor of Arts (BA Honours) - Psychology                        | 8.42 |
| Sabreena Zeenat Hannan    | Mass Communication               | Bachelor of Arts (BA Honours) - Mass Communication                | 8.67 |
| Hpaw Daw Htu Pan          | Education                        | Bachelor of Arts (BA Honours) - Education                         | 8    |
| Monush R Marak            | English                          | Master of Arts (MA) - English                                     | 8.83 |
| Biraj Singha              | Education                        | Master of Arts (MA) - Education                                   | 8.62 |
| Andreana Francisca Khriam | Psychology and Counselling       | Master of Science (MSc) - Psychology                              | 8.48 |
| Reshma Shreya Kancharla   | Social Work                      | Master of Social Work (MSW)                                       | 9    |
| Esther Vanlalramchhani    | Physics                          | Bachelor of Science (BSc Honours)- Physics                        | 8.8  |
| Loyal Chakma              | Mathematics                      | Bachelor of Science (BSc Honours)- Mathematics                    | 8.06 |
| Bethysa R Marak           | Physics                          | Master of Science (MSc) - Physics                                 | 8.83 |
| Khundrakpam Supriya Devi  | Chemistry                        | Master of Science (MSc) - Chemistry                               | 8.72 |
| Marshalstar Khongwir      | Mathematics                      | Master of Science (MSc) - Mathematics                             | 9    |
| Liza Changkakoti          | Zoology                          | Master of Science (MSc) - Zoology                                 | 9.51 |
| Sibange Paul              | Biosciences                      | Master of Science (MSc) - Biotechnology                           | 8.48 |
| Sankidaka Lapasam         | Biosciences                      | Master of Science (MSc) - Microbiology                            | 8.09 |
| Duanreiliu Kamei          | Botany                           | Master of Science (MSc) - Botany                                  | 8.89 |
| Dame Iaki Kharpuri        | Management                       | Master of Business Administration (MBA)                           | 9.41 |
| Navarun Gogoi             | Commerce                         | Bachelor of commerce (BCom)                                       | 8.85 |
| Baridondor Umyiap         | Commerce                         | Master of Commerce (MCom)   | 9.01 |
| Nilutpal Buragohain       | Computer Applications            | Bachelor of Computer Applications (BCA)                           | 8.6  |
| Uwora Moses Paul          | Computer Applications            | Master of Computer Applications(MCA)                              | 9.41 |
| Siddhartha Roychoudhury   | Computer Science and Engineering | Bachelor of Technology (BTech) - Computer Science and Engineering | 8.77 |

|                          |   |  |      |
|--------------------------|---|--|------|
| Chegrik Cheerian B Marak | Electronics and Communication Engineering | Bachelor of Technology (BTech) - Electronics and Communication Engineering | 9.17 |
| Euginia Maniza Langstieh | Electrical and Electronics Engineering    | Bachelor of Technology (BTech) - Electrical and Electronics Engineering    | 8.83 |
| Keviseno Sophie          | Civil Engineering                         | Bachelor of Technology (BTech) - Civil Engineering                         | 9.5  |
| Rajdeep Deka             | Mechanical Engineering                    | Bachelor of Technology (BTech) - Mechanical Engineering                    | 8.97 |

**The Chancellor's Gold Medal** for most significant contribution to campus life from among postgraduate students is awarded to **Jeremiah Jacob**, Master of Social Work (MSW)

**The Vice Chancellor's Gold Medal** for most significant contribution to campus life from among graduate students is awarded to **Nikita Das**, Bachelor of Computer Applications (BCA)

| Teaching Staff      | Male      | Female     | Total      |
|---------------------|-----------|------------|------------|
| Assistant Professor | 72        | 95         | 167        |
| Associate Professor | 7         | 10         | 17         |
| Professor           | 3         | 25         | 28         |
| <b>Grand Total</b>  | <b>82</b> | <b>130</b> | <b>212</b> |

| Non-Teaching Staff          | Male      | Female    | Total      |
|-----------------------------|-----------|-----------|------------|
| Senior Administrative Staff | 15        | 10        | 25         |
| Library Staff               | 2         | 5         | 7          |
| Office Staff                | 11        | 7         | 18         |
| Technical Staff             | 24        | 2         | 26         |
| Service Staff               | 16        | 27        | 43         |
| <b>Grand Total</b>          | <b>68</b> | <b>51</b> | <b>119</b> |

# Financial Statements of 2021-2022



## FORM NO. 10BB

(See Rule 16CC)

**Audit report under section 10(23C) of the Income-tax Act, 1961, in the case of any fund or trust or institution or any university or other educational institution or any hospital or other medical institution referred to in sub-clause (iv) or sub-clause (v) or sub-clause (vi) or sub clause(via) of section 10(23C).**

- (i) We have examined the Balance Sheet as at 31/03/2022 and the Income and Expenditure or Profit and Loss Account for the year ended on that date attached here with of DON BOSCO SOCIETY AZARA AAATD8629C
- (ii) We certify that the Balance Sheet and the Income and Expenditure Account or Profit and Loss Account are in agreement with the books of account maintained by the head office at SHILLONG MEGHALAYA and Guwahati branches.
- (iii) Subjects to comments below
  - (a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of the audit.
  - (b) In our opinion, proper books of account have been kept by the head office and branches of the above-named fund, or trust, or institution or any university or other educational institution or any hospital or other medical institution so far as appears from our examination of the books of account.
  - (c) In our opinion and to the best of our information and according to the information given to me/us, the said accounts read with notes thereon, if any, give a true and fair view -
    - (1) In the case of the Balance Sheet, of the state of affairs of the above-named fund, or trust, or institution or any university or other educational institution or any hospital or other medical institution as at 31/03/2022 and
    - (2) In the case of Income and Expenditure Account or Profit and Loss Account, surplus or deficit or profit or loss for the year ended on that date.

Where any of the matters stated in this report is answered in the negative, or with a qualification, the report shall state the reasons for the same

**Responsibilities of Management:** Management is responsible for the preparation and fair presentation of the financial statements in accordance with the Accounting Standards, and for such internal control determined necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error and also for assessing the entity's ability to continue as a going concern and disclose all applicable related matters. **Auditors Responsibilities:** Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Note: The words Profit and Loss A/c should be read as Income and Expenditure A/c.

The prescribed particulars are annexed herewith :

Place : GUWAHATI  
Date : 20/09/2022  
UDIN : 22054776ATJSIP3957



For H.K.AGRAWALA & ASSOCIATES  
Chartered Accountants

(HARISH KUMAR AGRAWALA)  
PARTNER

Membership No: 054776  
Registration No: 319293E

Second Floor, Above Indian Overseas Bank, Sabitri Lalit Bharali Bhawan, M. N. Road, Panbazar, Guwahati-781001  
Phone : (0361) 2511158 Email : harishkr\_ca@yahoo.com

**DON BOSCO SOCIETY AZARA**

SACRED HEART COLLEGE, MAWLAI, SHILLONG-793008

**BALANCE SHEET AS ON 31ST MARCH, 2022**

| LIABILITIES  |                   | AMOUNT (Rs.)             | ASSETS                      | SCH      | AMOUNT (Rs.)             |
|--|-------------------|--------------------------|-----------------------------|----------|--------------------------|
| <b>CORPUS FUND</b>   |                   | 6,10,36,335.94           | <b>FIXED ASSETS</b>         | <b>A</b> | 1,80,87,73,353.11        |
| <b>GENERAL FUND</b>  |                   |                          | <b>LOANS &amp; ADVANCES</b> |          | 7,98,331.00              |
| Opening Balance  | 1,84,55,37,702.93 |                          | <b>SECURITY DEPOSITS</b>    |          | 12,00,000.00             |
| Add Net Surplus transferred from<br>Income & Expenditure Account | 10,73,45,977.79   | 1,95,28,83,680.72        | <b>INVESTMENTS</b>          |          |                          |
| <b>ENDOWMENT FUND</b>  |                   | 2,01,00,000.00           | Deposits & Securities       | <b>B</b> | 25,13,86,449.28          |
| <b>ALUMNI ASSOCIATION FUND</b>                                   |                   | 1,59,934.00              | <b>CURRENT ASSETS</b>       |          |                          |
| <b>CAUTION DEPOSIT</b>   |                   | 4,68,18,806.85           | Cash in Hand                | <b>B</b> | 14,53,113.29             |
| <b>SECURED LOAN</b>  |                   |                          | Cash at Bank                | <b>B</b> | 1,70,68,363.87           |
| Vehicle Loan   |                   | 2,19,925.00              | TDS Recievable              | <b>B</b> | 5,39,071.96              |
| <b>TOTAL</b>   |                   | <b>2,08,12,18,682.51</b> | <b>TOTAL</b>                |          | <b>2,08,12,18,682.51</b> |

**SCHEDULE 'K' OF SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNT**

FOR AND ON BEHALF OF  
DON BOSCO SOCIETY, AZARA

PLACE: GUWAHATI  
DATE: 20-09-2022



AS PER OUR REPORT OF EVEN DATE  
FOR, H.K. AGRAWALA & ASSOCIATES  
CHARTERED ACCOUNTANTS

FRN: 319293E

CA. HARISH KR. AGRAWALA  
PARTNER

MEMBERSHIP NO: 054776



**DON BOSCO SOCIETY AZARA**  
SACRED HEART COLLEGE, MAWLAI, SHILLONG-793008

**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2022**

| EXPENDITURE                               | SCH | AMOUNT (Rs.)           | INCOME                                  | SCH | AMOUNT (Rs.)           |
|---|-----|------------------------|---|-----|------------------------|
| To University Running & Maintenance       | F   | 8,36,28,137.95         | By Fee Received                         | C   | 38,86,33,391.79        |
| * Hostel Running & Maintenance            | G   | 27,93,677.75           | * Other income                          | D   | 2,55,55,132.40         |
| * Payment to & for Employees              | H   | 15,61,75,815.00        | * Interest & Income from Securities     | E   | 1,49,79,613.77         |
| * Maintenance of Volunteers               | I   | 5,38,587.00            | * Profit on sale of old vehicle         |     | 8,504.61               |
| * Other Expenses                          | J   | 26,88,284.62           |   |     |                        |
| * Scholarship Paid                        |     | 42,66,493.00           |   |     |                        |
| * Social Service & Contribution           |     | 11,10,000.00           |   |     |                        |
| * Tea Garden Maintenance                  |     | 20,00,000.00           |   |     |                        |
| * Depreciation                            |     | 6,84,82,451.01         |   |     |                        |
| * Excess of Income Over Expenditure c/d   |     | 10,74,93,196.24        |   |     |                        |
| <b>TOTAL</b>                              |     | <b>42,91,76,642.57</b> | <b>TOTAL</b>                            |     | <b>42,91,76,642.57</b> |
| * TDS Receivable written off              |     | 1,47,218.45            | * Excess of Income Over Expenditure b/d |     | 10,74,93,196.24        |
| * Net Surplus transferred to General Fund |     | 10,73,45,977.79        |   |     |                        |
| <b>TOTAL</b>                              |     | <b>10,74,93,196.24</b> | <b>TOTAL</b>                            |     | <b>10,74,93,196.24</b> |

FOR AND ON BEHALF OF  
DON BOSCO SOCIETY, AZARA

PLACE: GUWAHATI  
DATE: 30-09-2022



AS PER OUR REPORT OF EVEN DATE  
FOR, H.K.AGRAWALA & ASSOCIATES  
CHARTERED ACCOUNTANTS  
FRN: 319293E

CA. HARIS KR. AGRAWALA  
PARTNER  
MEMBERSHIP NO.: 054776



**DON BOSCO SOCIETY AZARA**  
SACRED HEART COLLEGE, MAWLAI, SHILLONG-793008

**RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2022**

| RECEIPTS                                 | SCH | AMOUNT (Rs.)           | PAYMENTS                            | SCH | AMOUNT (Rs.)           |
|--|-----|------------------------|-------------------------------------|-----|------------------------|
| To Opening Balance                       | B   | 18,47,50,282.21        | By University Running & Maintenance | F   | 8,36,28,137.95         |
| * Fee Received                           | C   | 38,86,33,391.79        | * Hostel Running & Maintenance      | G   | 27,93,677.75           |
| * Other Income                           | D   | 2,53,55,132.40         | * Payment to & for Employees        | H   | 15,61,75,815.00        |
| * Interest & Income from Securities      | E   | 1,49,79,613.77         | * Maintenance of Volunteers         | I   | 5,38,587.00            |
| * Exchange Value of Old Vehicle          |     | 2,90,072.15            | * Other Expenses                    | J   | 26,88,284.62           |
| * Caution Deposit Received               |     | 2,22,01,620.00         | * Scholarship Paid                  |     | 42,66,493.00           |
| * Net Advances Recovered during the year |     | 39,59,346.00           | * Social Service & Contribution     |     | 11,10,000.00           |
|  |     |                        | * Tea Garden Maintenance            |     | 20,00,000.00           |
|  |     |                        | * Capital Expenditure               | J   | 10,44,13,742.15        |
|  |     |                        | * Repayment Of Vehicle Loan         |     | 1,64,878.00            |
|  |     |                        | * Caution Deposit Refund            |     | 1,19,95,626.00         |
|  |     |                        | * TDS Receivable Written off        |     | 1,47,218.45            |
|  |     |                        | * Closing Balance                   | B   | 27,04,46,998.40        |
| <b>TOTAL</b>                             |     | <b>64,03,69,458.32</b> | <b>TOTAL</b>                        |     | <b>64,03,69,458.32</b> |

FOR AND ON BEHALF OF  
DON BOSCO SOCIETY, AZARA

PLACE: GUWAHATI  
DATE: 31-09-2022



AS PER OUR REPORT OF EVEN DATE  
FOR, H.K. AGRAWALA & ASSOCIATES  
CHARTERED ACCOUNTANTS  
FRN: 319290E

CA. HARESH K. AGRAWALA  
PARTNER  
MEMBERSHIP NO.: 054776



**DON BOSCO SOCIETY AZARA**  
**SACRED HEART COLLEGE, MAWLAI, SHILLONG - 793008**

**SCHEDULE 'K' OF SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS  
ATTACHED TO AND FORMING PART OF BALANCE SHEET AS AT 31<sup>ST</sup> MARCH 2022**

**FIXED ASSETS:**

To account fixed assets at cost of acquisition inclusive of inward freight, duties, taxes and incidental expenses relating to acquisition. In respect of expansion involving construction related incidental expenses form part of the value of assets capitalised. Expenses incurred up to the date of putting the assets in working condition for its intended use are only capitalised with relative assets. Expenses for maintenance and repairs are charged to revenue.

**METHOD OF ACCOUNTING:**

To recognized revenue and to charge against revenue all costs and expenses on cash system of accounting.

**HUMAN RESOURCE DEVELOPMENT:**

To charge to revenue all expenses and income relating to training and human development in the year in which it is incurred or earned.

**CONTINGENT LIABILITIES:**

Not to provide for any contingent liabilities except for cases where provision needs to be made based on expert opinion.

**DEPRECIATION:**

To calculate depreciation on fixed assets on written down value method and to provide such depreciation irrespective of the period of use for whole year on assets if purchased during the year. Further, no depreciation on an asset is provided in the year in which it is sold/discarded irrespective of its use during the year.

**INVESTMENT:**

To value investment at cost. Cost includes all direct expenses related to acquisition including cost of acquisition.

**GENERAL:**

To maintained and record transaction and to prepare and finalize annual accounts on historical cost basis.

