



**ASSAM  
DON BOSCO  
UNIVERSITY**

# **ANNUAL REPORT**

## **2019 - 2020**



## Contents

Vice Chancellor's Message	3
About Assam Don Bosco University	9
Introduction	
Vision and Mission	
Schools	
Highlights of 2019-2020: A Diary of Events	12
School of Commerce and Management	21
School of Fundamental and Applied Sciences	29
School of Humanities and Social Sciences	39
School of Life Sciences	46
School of Technology	51
In focus: ADBU's Agenda for Sustainability	61
Updates on Placement Activities at ADBU	62
Research Activities of ADBU in 2019-2020	63
University at a Glance: Statistics	73
Financial Statements of 2019-2020	81



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 in Chemistry, Botany and Zoology, b) Bachelors in Business Administration, and c) Masters in Botany

All preparations have been completed for the introduction of the integrated 4-year Professional Teacher Education Programme (BA-B Ed, B Sc-B Ed, M Ed) once the National Council for Teacher Education completes the inspection.

Under DBU Global, our distance education wing, we have just been approved for the following Programmes of Study for the year 2019-20: Bachelor's in Philosophy, Business Administration, Commerce and Computer Applications, and Master's in Philosophy, Education, Human Rights, Mass Communication, Commerce, Social Work and Information Technology. They are being introduced in a phased manner.

As in previous years, this summer too saw incredible activity at all campuses of the University with an array of summer 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 Communication Media from Chicago (USA), this month we are initiating a 'Certificate Course in Neuropsychology' with the University of Parma (Italy), and next month we are organizing a Summer School in collaboration with Frankfurt University of Applied Sciences (Germany) on 'Human Rights for Social Development'.

Let me also share with you the proud news that, at the end of this month, we shall be hosting a Production Team from the BBC and the International Association of Universities to be featured in a documentary series on the Institutions of Higher Education raising the living standards of persons around their campuses through focused interventions in a variety of areas. We are one among 15 universities chosen from across the world to feature in this series.

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	Dr Dominic Meyieho Assistant Professor, Department of Education
2	ADBU Journal of Engineering Technology (AJET)	Prof. Sunandan Baruah Professor, Department of Electrical and electronics
3	The Journal of Development Practice	Dr. Jacob Islary Assistant Professor, Department of Social Work
4	Journal of Applied and Fundamental Sciences	Dr. Samrat Dey Assistant Professor, Department of Physics
5	Journal of Management in Practice	Mr. Chandan Dutta Assistant Professor, Department of Management
6	ADBU Journal of Electrical and Electronics Engineering (AJEEE)	Prof. Shakuntala Laskar 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. 59% (155 out of 264) of the faculty have completed their doctorate, another 64 (24%) 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 also in the holding of seminars, conferences and workshops, 61 in a row this year alone. Our Faculty-Student ratio is a very healthy 1:10.2, 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 1.9 per member of the faculty. Most of these arise out of their areas of doctoral work or research projects. It is also gratifying to note that our undergraduate students have got into the act with several of their papers getting published.

It is also a matter of pride that we have today 317 research scholars, pursuing their doctoral studies across 23 disciplines – 12 of them are being awarded the Doctorate today in addition to 31 awarded at earlier convocations.

In the area of infrastructure development, a lot of developments have taken place at the Tapesia Campus – 4 new hostels (two each for men and women), a new water body spanning 6 acres, 2 kilometres of roads under development, Academic Block-IV with 17 new labs for Basic Sciences, over 5000 trees and saplings planted... Plans are afoot for the construction of Academic Block-V, two more hostels, an additional Food Court 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.

Speaking of campus development, we are proud of our plantations (numbering over 20,000 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 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.

The tea estate too is getting a new lease of life with a systematic conversion to organic farming and tea research. We have also started experimenting with the production of hand-rolled tea; eventually a tea factory will be in place to produce and package quality tea.

I am also happy to report that we have given a facelift to our Campus at Azara, raising the ground level to prevent the frequent waterlogging, and providing new boundary walls that showcase the beauty of the campus.

In the area of quality assurance, we hold the unique distinction of being the first university in the country being awarded a B+, among the 59 accredited universities to have been accredited by NAAC under the revised accreditation framework.

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 academic excellence. 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 reach out to spread this message and insistence right across every process in the University.

Current Statistics on various parameters

No report on the University will be complete without detailed statistics on a number of parameters relating to the University. The following pages furnish you with some of the relevant statistics as on date.

#### PROGRAMMES OF STUDY

There are currently 19 graduate programmes, 18 post-graduate programmes, and 23 doctoral programmes in the university. The details are given elsewhere in this Report.

#### STUDENT DISTRIBUTION

On Campus: we have 2960 students.

Under DBU Global (online): we have 3244 students.

#### GRADUATING STUDENTS

FROM CAMPUS PROGRAMMES: 619 graduates

FROM DBU GLOBAL PROGRAMMES: 223 graduates

The Chancellor's Gold Medal for most significant contribution to campus life from among postgraduate students was awarded to MANASH PRATIM RAJBONGSHI, Master of Science (Zoology).

The Vice Chancellor's Gold Medal for most significant contribution to campus life from among graduate students was awarded to RAISA TAMSIN HUSSAIN, Bachelor of Technology (Civil Engineering)

#### TEACHING STAFF

Faculty	Regular		Adjunct		Visiting	TOTAL
	Male	Female	Male	Female	Male	
Professor	18	1	27	3		49
Associate Professor	6	7	31	1	2	47
Assistant Professor	86	67	8	7		168
Total	110	75	66	11	2	264

## NON TEACHING STAFF

STAFF MEMBERS	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
TOTAL	68	51	119

\*\*\*\*\*    \*\*\*\*\*    \*\*\*\*\*

A University set on very strong foundations...

On this occasion, let me share with you a few of the core 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 decisions... 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.

\*\*\*\*\*    \*\*\*\*\*    \*\*\*\*\*

Let me end this report by quoting here my message to the Graduates of 2019 on the occasion of their Convocation Day. It summarises wonderfully the entire rationale and philosophy of Don Bosco University in its service to the young men and women of our time.

Dear Graduates of 2019... It is no exaggeration when I say, on behalf of all of us here in the University, that your presence and your life here have brought us much joy. It has been a pleasure to see you grow in immeasurable ways; and, today, we are proud to see you launch out into the wider world as Graduates of Don Bosco University.

I am certain that you will play significant roles in shaping the future of our country and the world. It is with that aim in mind that we established Don Bosco University – ‘to be there where the leaders of society are formed! I can say that with confidence because you are not only professionals in your own areas of expertise, you are also endowed with the right attitudes, values and determination that you have imbibed here and will bring to bear on your work.

As you grow and develop, and blossom into leaders of tomorrow, the world will stand and take note of you because, I am sure, you will undoubtedly be:

- leaders with a vision who leave significant footprints wherever you find yourselves
- leaders with a human face, dependable human beings, and
- leaders passionate about making a change in the lives of the less privileged!

\*\*\*\*\*    \*\*\*\*\*    \*\*\*\*\*

You start your career at a time when opportunities are huge, competition is intense, the challenges are formidable, and change is the order of the day. It is a daunting time for anyone to be starting out on a career.

Protectionism is everywhere. Unvarnished nationalism, pseudo-patriotism and the cultivation of majoritarian agendas are sweeping the world, and spreading from country to country. White supremacy, racial intolerance, religious fundamentalism, predatory business tactics, blatant displays of military might are all being given a sheen of respectability!

The initial enthusiasm about globalization is waning as the developed nations find the developing and the under-developed nations beginning to challenge their dominance and hegemony. Manmade barriers and trade wars are corralling the world economy into what could be a long recession.

I am painting a gloomy picture, I am aware. But I do have a purpose in touching upon this uncomfortable situation in the world and in our country today.

What’s happening right now is turning out to be a perfect storm; and that’s where the challenge lies, the challenge for each one of you

- the challenge to look for creative ventures and ideas
- the challenge to risk and dare and build and forge ahead
- the challenge to lead, and not be just wayside critics
- the challenge to dream, and to have the faith to nurture that dream, and,
- the constant challenge to be true to yourselves in an ambivalent world...

\*\*\*\*\*    \*\*\*\*\*    \*\*\*\*\*

In this context, let me place one other challenge before you. It is this: consider entering public life. By public life I mean civil service, politics, religious life, grassroots movements. In these spheres of life, there is much you can do and achieve, much you can influence and change, much joy to be found and to be shared, much contentment, inner peace and joy that you can relish; and, there will

be, believe me, success and fulfilment of a different kind... one that truly satisfies, at the end of the day!

We all yearn for success... What is success? Here is a good definition in the words of Ralph Waldo Emerson,

'To laugh often and much; to win the respect of intelligent people and the affection of children; to earn the appreciation of honest critics and endure the betrayal of false friends; to appreciate beauty; to find the best in others; to leave the world a bit better, whether by a healthy child, a garden patch, or a redeemed social condition: to know even one life has breathed easier because you have lived... This is to have succeeded!'

I repeat again: CONSIDER PUBLIC LIFE...

Having said that, whatever may be the road you get to travel

- Be passionate about what you do, and focus on reaching your destination;
- Treat everyone and everything with respect and compassion;
- Undergird your decisions with the values you have learnt here; and, above all,
- Don't forget to stop every now and then to marvel at the workings of grace in your life...!

\*\*\*\*\*    \*\*\*\*\*    \*\*\*\*\*

One final thought: Our theme for this year is on 'mindfulness'... 'Mindfulness' that comes as a result of deliberately cultivating a habit of 'awareness' of others, of one's surroundings, of nature, of possibilities and dreams, of a life without addictions, of the joys of empathy, love and friendship, of reliance on the loving providence of 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.

Let me wish you an abundance of God's blessings as you look for that unique niche that only you can fill; and, having found it, embrace it with all the passion at your command!

Your future is in your hands... Carpe Diem! Seize the Day! ... and may God bless you every day and in every way! ...Thank you!

Fr Stephen Mavelly  
Rector & Vice-Chancellor  
7th September 2019

# 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. 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, 19 postgraduate programmes and doctoral studies in 23 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 2019-2020: A Diary of Events

### University signed 'Green Pledge' in collaboration with European Union, 5 June 2019



Assam Don Bosco University collaborated with the Delegation of the European Union and the European Union embassies in India to join the common fight against environmental degradation and agreed to follow the principles adopted by the EU embassies as part of the "EU Green Pledge" adopted by the EU missions in India on 5th June 2019. EU Green Pledge was signed by the Registrar, Fr.(Dr) Biju Michael on behalf of the University while Ms. Henriette Faergemann, First Counsellor, Delegation of the European Union to India signed the same on behalf of EU.

As a part of the initiative, the University agrees to make sincere efforts towards the following:

- Eliminate the use of single use plastic products wherever possible such as plastic straws, stirrers, cups etc. in the university campus and residences.
- Switch from plastic bags to other material such as paper, cloth or jute bags.
- Stop serving water in plastic bottles.
- Request hotels and conference facilities where we organize our events to follow these principles.

### National Workshop on Pedagogy for 21st Century Teaching and Research, 12-13 May 2019



A two-day national workshop on 'Pedagogy for 21st Century Teaching and Research' was held from 12-13 May, 2019 at the Azara Campus of Assam Don Bosco University.

The objective of the workshop was to provide an opportunity to the educators of Higher Education Institutions (HEIs) of the region to revisit their roles and redefine their teaching frameworks, make efforts towards adapting to the 21st century teaching methodologies, curriculum design and evaluation, and basic research skills for effective teaching-learning process. The workshop was organised by the Internal Quality and Assurance Cell (IQAC) of the University in collaboration with National Assessment and Accreditation Council (NAAC) as the academic partner. The resource persons for the workshop were Prof. P.K. Acharya, Department of Education, Rajiv Gandhi University (RGU), Itanagar; Prof. T. Lunghdim, Department of

Education, RGU, Itanagar; Prof. K.C. Kapoor, Department of Education, ADBU; and Dr. John Jose, Assistant Professor, Department of Computer Science and Engineering, IIT-Guwahati. The Resource persons gave insight into the areas of outcome based education model, student-centric effective teaching methodologies and learning designs, research and academic writing skills, curriculum design, and modern schemes of evaluation. 57 educators from across the country participated in the workshop.

### **Staff Development Programmes, 11-17 July 2019 and 8-14 January 2020**



Faculty Development Programme was conducted at Tapesia Campus before the start of the new academic year 2019-20, based on the theme 'Towards Catalyzing Design Thinking and Mindfulness' on 11-17 July 2019. The Resource Persons Professor Lata Chakravarthy, Dean Faculty Development Centre (IIM, Shillong) , Dr. Sanjeeb Kakoty (Associate Professor at IIM Shillong) Ms. Sunita Bhuyan (Mumbai – a Violinist and Management Professional for Leadership and Change through Music) took turns in addressing the theme of the Faculty Development Programme

The University organized a second faculty development for one-week, a workshop on Service Learning during 8-14 January 2020 at Tapesia Campus. Prof. Andrew Carlson and Prof. Suzanne Walfoort from Minnesota State University, USA were the recourse persons for the workshop. During this workshop, the resource persons engaged the participants in different activities with an attempt to make them understand the values and importance of Service Learning.

### **International Student Exchange Programme 2019**



The sixth edition of the International Student Volunteer Exchange Programme, was conducted for over a one month. The Intercultural and Participatory Community Education and Development Programme between the University and University College Dublin Volunteers Overseas, Ireland, concluded on 13th July 2019.

This year, the Programme was implemented in the villages of Arabari, Barkhat No. 1, and Gojaiguri, under Sonapur, Assam. Some of intervention programmes included the implementation of:

- Awareness campaign on alcoholism, domestic violence and its effects on social and economic life
- Programmes and workshops which will enhance the community life of the people
- Organising weavers of the locality and setting up groups or a cooperative of weavers
- Intervention to enhance the functioning of the anganwadis - infrastructure and learning environment
- Adult literacy classes
- Language (English) enhancement classes to the students and youth
- Work with children, youth and women (clubs and groups formations)

- Health awareness programmes and campaigns
- Help in opening of Bank Accounts and facilitate in getting subsidized LPG connection.
- Training on Art and Craft for enhancement of livelihoods.
- Organise health/medical awareness and camps

## **National Workshop on Research Publication and Intellectual Property Rights, 26 April 2019**



The IPR Cell at Assam Don Bosco University belonging to the Board for Research, Innovation and Consultancy, ADBU in association with Patent Information Center, Assam Science Technology and Environment Council, Govt. of Assam organized a One day National Workshop on Research Publication and Intellectual Property Rights (WIPD 2019) on 26th April 2019 at Tapesia Campus.

The workshop brought together the UG, PG and Doctoral students from universities and Colleges to provide in-depth knowledge in the fields of IPR and research publications.

Addressing the gathering at the inaugural session, Dr. Arup Kumar Misra, Director, Assam Science Technology & Environment Council, Government of Assam spoke on the importance of innovation, saying, “Innovation does not mean re-inventing the wheel, but, using the wheel for the best purpose”.

The Vice Chancellor, Fr. Stephen Mavelly reiterated the University’s commitment to ‘research with social relevance’ and that a number of innovations that have come out from research at the University address the need of the common people. He added that ‘for such kind of research and innovation, sophisticated instruments and laboratories are not a necessity’. He encouraged the participants in this line saying, “Think of what you can do to bring about real changes in your society”.

The workshop had sessions on ‘ Research Publication: An Introduction’ by Prof. JN Vishwakarma, Director of Research at the University; ‘How to write a good research paper’ by Dr. Hridoy Jyoti Mahanta; ‘Selecting the Right Journal’ by Dr. Sunandan Baruah, Director, Center of Excellence in Nanotechnology, ADBU; ‘Publication Standards: Impact factor, h index, i10 index, cita- tions etc’ by Dr. Samrat Dey, HoD, Department of Physics; Plagiarism, Tools for Plagiarism Checking and Proofreading by Dr. Vikramjit Kakati, Associate Professor, Department of Civil Engineering, DBU; ‘Funding your Research by Dr. Uzzal, ‘IPR: Patent and Copyright’ by representatives from ASTEC and Competition on Innovation and IP.

## **International Yoga Day 2019, 21 June 2019**



The observance of this day International Yoga Day 2019 was observed at the University by performing various Yoga postures at the University's Tapesia Campus at 7:00 am in the morning. As the University is on a summer break, there were only students of Master of Social Work who remained in the campus for International Student Volunteer Exchange Programme 2019 who worked with volunteers from University College Dublin, Ireland. The students along with some student volunteers from University College Dublin joined in the celebration.

At Kharguli campus, the day was celebrated by talks by, Dr (Fr.) PD John and Fr. Paulus Guria on the power of Yoga and the uses of Yoga as a tool for wellness to the students. The programme concluded by Ms Pinky Sarkas taking the students through Yoga postures.

### **Kiddies' Day Camp, 1-5 July 2019**



A 5-Day Kiddies Day Camp, an initiative of the Centre for Development Studies and Initiatives (CDSI) and Alumni Association of Assam Don Bosco University was held from 1-5 July 2019 at Green Pasture Children's Home. The Camp was inaugurated by Mr. W. Shabong, District Child Protection Officer, West Khasi Hills District, Meghalaya, and Mr. A. S. Dohling, Secretary, Life Light Focus Concern. The five-day programme aimed at enhancing the psychosocial competence of the children, included life skills sessions, arts and crafts, sports, and other recreational activities.

Addressing the children, Mr. W. Shabong and Mr. A. S. Dohling encouraged them to participate in every activity scheduled at the camp, to give their best in everything, to be sincere in what they do and work hard as that is the way to a bright future where they can one day be who they want to be and become good human beings in the society. The Programme is coordinated by Ms Hazel B. Wahlang, Coordinator, CDSI, Assam Don Bosco University.

### **Unnat Bharat Abhiyan Programmes - Theatre Workshop, 16-17 August 2019 and Awareness Programme on Mushroom Cultivation, 19 August 2019**



A two-day Theatre Workshop was organized by student volunteers of Unnat Bharat Abhiyan, Assam Don Bosco University Unit, at Arun Shankar Bhaduri Balika Vidyalaya High School on 16-17 August 2019. 15 student volunteers from the Department of Social Work, Mass Communication and Language Studies participated actively to carry out the theatrical sessions. The event was coordinated by Miss Hazel Wahlang, Coordinator of UBA- ADBU Unit. About 40 students studying in Grade 6-10 participated in the workshop. the students were introduced to the basics of drama,

features of acting skills as well as the basics of mime act. Some of which included voice modulation, body posture and movements, quick reactions to one's current environment and respecting others' space on-stage. The Programme concluded by selecting 12 participant students girls, who proved to be good and interested in acting to undergo further training at the University.

on 19th August 2019, as another initiative of Unnat Bharat Abhiyan Unit of Assam Don Bosco University in collaboration with the Department of Biosciences organized an awareness programme on "Importance of Mushroom Cultivation" at Arabari Village. Seven student volunteers of Vita Scientia Club accompanied the resource person Dr. Monika Soni, Assistant Professor of Assam Don Bosco University. This awareness programme created interest in the women folk of the village to carry on with the mushroom cultivation so as to add to their family income.

### **Eight Convocation of the University, 7 September 2019**



The Eighth Convocation of the University was held on 7 September 2019 at Tapesia Campus of the University where 840 students received degrees in various programmes. Gold Medals under various categories were awarded to 20 outstanding graduates with the highest Cumulative Grade Point Average in each program. The Chancellor's and the Vice Chancellor's medals, for overall outstanding performance and notable contribution to campus life were awarded to two graduating students at the Convocation.

Prof. Jagdish Mukhi, the Honourable Governor of Assam, presided over the function as the Visitor to the University and delivered the Presidential Address. The Chancellor, Fr. Januarius Sangma, and the Vice Chancellor, Fr. (Dr) Stephen Mavelly also spoke at the solemn function. A host of dignitaries from Civil, Church and Academic institutions of the region also attended the occasion.

In his presidential address, Professor Jagdish Mukhi said, "The government of India wants to establish the country as an 'AI Garage' which means that if a company can deploy an AI technology in India, it will then be applicable for the whole developing world. AI research in India will focus on healthcare - increasing access and affordability of quality healthcare; agriculture enhancing farmer's income, farm productivity and reduction of wastage; education- improving access and quality of education; smart cities and infrastructure- efficient connectivity for the burgeoning urban population; and smart mobility and transportation- for smarter and safer modes of transportation and better traffic and congestion problems."

While appreciating the Assam Don Bosco University, the Governor also said that University is creating and disseminating knowledge and skills in core as well as frontier areas of education, developing reservoir of youth power, which effectively participate in nation building.

The Chancellor of the University, Fr. Januarius Sangma said, "The role of the universities is very important to all sectors as the key institutions in processes of social change and all-round development. Respect, fraternity, dignity for every kind of work, non-violence,



standing for truth and principles, upholding the dignity of life, compassion, kindness—these are but some of the values that we need to live for. This is how we build a nation; this is how we build humanity.”

Giving a report on the University, the Vice Chancellor Fr (Dr) Stephen Mavelly, said, “Assam Don Bosco University is becoming a nerve centre for the development of the North Eastern Region. The University has taken up development initiatives in 42 villages that surround the University. It is an ideal location 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.”

### **Summer School on Human Rights for Social Development, 10 - 20 October 2019**



A ten-day International Summer School on Human Rights for Social Development: Frames and Agents was held at the Assam Don Bosco University today. Addressing the participants and invited guests, Dr. Ursula Fasselt, Professor of Social Work and Health and also the Convener of the Summer School, Frankfurt University of Applied Sciences, said, “It was a very inspiring week – we all experienced a journey which brought us from a theoretical concept – every person being endorsed with inalienable, indivisible, universal Human Rights – to a deep feeling about the necessity of social change in order to fully implement those rights.”

The International Summer School was attended by thirty-five students from different parts of India and Germany. During the ten-day period, they attended lectures on human rights for social development, sessions on Yoga, games and sports, did field visits to Human Rights agencies, interacted with development practitioners, and completed Art Projects on Communication for Human Rights. The Valedictory Programme comprised Exhibition of the Art Projects: Collage-making, Street-theater and Film-making. The Exhibition was the outcome of the weeklong intensive workshops facilitated by Ms. Meike Porz and Prof. Bernard Kayser from Frankfurt University of Applied Sciences, and Jai Kishan S. Gunasekaran and Kaushik Bhuyan of Mass Communication Department (ADBU). The Report of the National Conference on Social and Behaviour Change Communication for North Eastern Region which was jointly organized by ADBU, UNICEF Assam, and Tezpur University, earlier in the year, was also released during the event.

### **Blind Walk 2019, 17 October 2019**



The University in collaboration with NAVJAN organized a Blind Walk on 17th October 2019 at Tapesia Campus of the University with an attempt to raise awareness among the students and staffs, the importance of eye donation. A group of fifteen visually impaired children from Jyoti Niketan (Guwahati) led the walk which saw large- scale participation from among the ADBU faculty and students. Speaking on the occasion, Fr. Jose Mappilaparambil, Director, NAVJAN said, “Donating one’s eyes for those who cannot see is a blessing for the self and for those that one leaves behind after death.”

NAVJAN is a Social Development Wing of North-East Independent Delegation, for the empowerment of the people of North- east region through its socio-economic, cultural, developmental initiatives.

### **Vigilance Awareness Week, 28 October - 2 November 2019**

The Vigilance Awareness Week, 2019 was observed in Assam Don Bosco University from 28 October to 2 November, 2019.

The theme for this year’s vigilance awareness week was “Integrity- A Way of Life”. The observation of Vigilance Awareness Week commenced with an Integrity Pledge by all the faculties, students and staff members administered by Fr Stephen Mavelly, the Vice Chancellor on 28th October morning.

On 29 October, a Debate Competition was organized by Literary Club on a topic “Social integrity is the only key to National Development’. The Debate Competition was moderated by Dr. Lukose PJ, HoD, Department of Social Work and was judged by Dr. Zacharias Tirkey from the Department of Education and Ms. Pratikshya Bezbaruah from the Department of Physics. On the same day, a Poster Competition was also organized where 10 students participated. The competition was judged by Ms. Sampreeti Das from the Department of Psychology and Dr. Milton Joseph from the Department of Education.



On 30 October, 2019, a Walkathon was organised where both the faculty and students participated. On 31 October, 2019, nine students from the Department of Language Studies, performed a Street Play themed “Integrity” in Sonapur Market to create social awareness. On the concluding day, special prizes and certificates were distributed by Fr Stephen Mavelly, Vice Chancellor, Assam Don Bosco University to the winners and participants of various competitions held during the week

### **UGC Workshop on Evaluation Reforms, 4-5 November 2019**

A workshop on ‘Evaluation Reforms in Higher Education Institutions (HEIs)’ for the Northeast region was organized by the University Grants Commission (UGC), North Eastern Regional Office, at Assam Don Bosco University, Azara Campus, Guwahati, on 4-5 November 2019.



The programme was conducted in the presence of the dignitaries from UGC, Dr. Nikhil Kumar, Education Officer, UGC, Prof. T.K. Majumder, the Vice Chancellor of Techno Global University, Meghalaya, Pro-Vice Chancellor of Assam Don Bosco University, Fr. Joseph Nellanatt. Dr. Gopi Chand M., Deputy Secretary, UGC NERO; Prof. Gur Saran and Prof. R.S. Pavithr from Dayalbagh Educational Institute, Agra; Fr. Dr. Biju Michael, Registrar, Assam Don Bosco University; and Prof. Manoranjan Kalita, Director, School of Technology, Assam Don Bosco University, along with 100 participants including Controllers of Examinations, Officers and Examination Staffs from 45 Universities and Autonomous Institutions from North East India.

The workshop was held with an aim to deliberate and understand the evaluation reforms and practices introduced by UGC in the higher education. It consisted of five sessions where various experts in the field delivered lectures and at the end a discussion on the best practices in evaluation by higher institutions was held.

### **1st Springer International Conference on Emerging Global Trends in Engineering and Technology (EGTET-2020), 6 and 7 March 2020**

The 1st Springer International Conference on Emerging Global Trends in Engineering and Technology (EGTET-2020) was the 3rd conference in the EGTET series organized by School of Technology, Assam Don Bosco University.



The conference was based on the theme of “SMART CITY” and was held during 6th and 7th of March 2020 at the Azara campus of Assam Don Bosco University. The objective of the conference was to bring together researchers working in diverse areas of Science and Technology to interact and exchange new ideas and also to explore possible collaborations.

A total of 65 papers were received from various institutions across India, keeping in alignment to the theme of the conference on “Smart City”. To mention few of the institutions from where papers for the conference were received are the National Institute of Technology (Srinagar), Manipal University (Jaipur), Thapar Institute of Engineering (Punjab), North Eastern Hill University (Meghalaya), Jorhat Engineering College (Assam), Kalinga Institute of Industrial Technology (Bhubaneswar), Birla Institute of Technology, Gauhati University (Assam), and our Assam Don Bosco University.

The inaugural programme of EGTET 2020 was graced with the presence of Prof. Dharendra Nath Buragohain, Founder Director and Emeritus Professor, Indian Institute of Technology, Guwahati as Chief Guest and Prof. Dhiraj Bora, Vice Chancellor, Assam Science and Technology University as the Guest of Honour. The programme also witnessed the presence of two eminent guests, Prof. Yumnam Jayanta Singh, Director, NIELIT, Guwahati and Prof. Sukumar Nandi, IIT Guwahati.

The technical session started with the keynote address on “Visible Light Communication” delivered by Dr. Karel L Sterckx from Bangkok University-Director CROCCS. The participants also witnessed

invited talk by two international speakers Dr. Vasaki Punaswamy from Universiti Tunku Abdul Rahman, Malaysia on the topic “Green IoT (G-IoT) Ecosystem for Smart Cities” and Dr. Biju Issac from Dept. of Computer and Information Sciences, Northumbria University on “Intelligent Intrusion Detection System through Optimized Machine Learning”. Also three more invited talk was delivered by speakers from North East India, Dr. Jenita Mary Nongkinryh from NESAC, Meghalaya delivered a talk on “Urban Motility with Special Emphasis on Smart Transportation”, Prof. Durlav Hazarika from the department of Electrical Engineering, AEC on the topic “Micro-grid power management issues for Smart City” and Prof. Kandarpa Kumar Sarma from the department of ECE, Gauhati University on the topic “Technological Challenges and issues of connected vehicles”.

On the whole, EGTEET-2020 had provided an ideal platform for industry professionals, researchers, engineers and academicians from all over the country and abroad to share their views and present their findings to raise awareness among stakeholders to lead us one-step ahead for the dream of achieving smart city development.

# School of Commerce and Management

## Summer Internship Programs, April – June 2019

The second year MBA students reported back after completing a rigorous 8-week long Summer Internship Program (SIP). SIP is an integral component of the MBA program designed with a view to provide students with practical experience earned by means of working on live company projects. Students take up projects in various organization. In the past, some students had been offered positions in the same companies where they carried out their internships.

This year the DBIM students carried out their projects in notable companies like Reliance Retail, HDFC Bank among other notable companies. 48% of the students were under paid internships which was increase from the 25% last year.

## New student Induction, 15-31 July 2019

DBIM started off with its eleventh batch of MBA Programme this year. Presenting the best example of unity in diversity DBIM chose its students from diverse cultural backgrounds. This year the new student orientation cum induction program was a detailed three-week program from July 15 to July 31.

The orientation program had begun with Dr. (Fr.) P. D. John, Director DBIM, and the faculty members, interacting with the parents and guardians of the new admits in an open house on the afternoon of July 15. The open session was held in the Saraighat hall. Fr. P. D. John talked about the high expectations of people from Don Bosco institutions and how the institutions are committed to excellence. The students and parents were informed on the kind of teacher-student relationship that is given importance. On July 17 forenoon, Fr. P. D. John conducted a session for all the MBA students, new admits and 2nd year MBA students. The sessions were conducted by the management faculty on various topics like Group Discussions, Behavioral Analysis, Career Prospects, Lateral Thinking, Networking, Strategy, Case Study Approaches etc.

## Orientation Programme, 26 July 2019

An Orientation Programme was organized on 26 July, 2019 at the conference hall of Azara Campus for all the students of BBA, B.Com and M.Com. The theme of the session was "Learn, Lead, Adapt, and Improve". The session began with an introductory address by Dr. Bijumani Das, Head, Departments of Commerce and Management. Resource person of the programme, Dr. Bijumani Das motivated students for the new academic session and the tasks ahead in learning to become all rounded personality.

## Inauguration of the Academic Year, 6 August 2019



6 August 2019 was earmarked for the integration of the new MBA students into the DBIM fraternity. The event was coordinated by Ms Pinky Sarkar, Event Manager, DBIM. The Chief Guest for the occasion was Rev Dr (Fr) Stephen Mavelly SDB, Vice Chancellor of Assam Don Bosco University and the Guest of Honour was Shri Shantikam Hazarika, the former director of Assam Institute of Management and former Chairman of SEBA.

Guest of Honour, Shri Shantikam Hazarika, he urged all the students to be thankful for what they received and to have mutual respect. His message to the students was “Learning how to learn and to learn in all dimensions”. His three steps towards the development of a better person was: Hard work, Mobility and Good Habits.

Chief Guest, Dr (Fr) Stephen Mavelly spoke elegantly and briefly about the attitudes one should possess, which includes sharing and not an attitude of “Me, Myself and I”. Empathy along with mindfulness should be practiced daily to lead a great and happy life.

### **Industry Visit to Jyothy Laboratories, 31 August 2019**

This year’s industry visit for the MBA second year students was to Jyothy Laboratories LTD., Amingaon, Guwahati on August 31. The students learned about the manufacturing, business processes and distribution process . The students got inspired by the challenging work conditions of the plant workers. The plant at Amingaon specializes in the manufacture of Maxo mosquito repellent coils.

### **Youth Parliament, 24 October 2019**



The Department of Commerce and Management of Assam Don Bosco University has organized a first of its kind event “Youth Parliament” under the aegis of Mercemoc, Prajyuktam Fest on 24 October, 2019 in the college premises. The topic for the Youth Parliament Debate was ‘the government is placing a bill that by 2022 the reservation policy will be abolished’. It is the first youth parliament competition that had been organized and as the name suggests, it is a replica of the real Parliament debate that happens in our Parliament for discussing policy matters and important issues facing our country. In total, there were 25 teams participated from fourteen different colleges and institutions from Guwahati. Out of 25 teams participated, 13 teams represented government team and 13 teams represented the Opposition members. To judge the caliber and effectiveness of the debate, four judges were part of the Jury. The judges for the event were Mr. K.N Hazarika, Ex-CMD NEDFI; Ex-Director, EDIC ADBU; Ex-General Manager SBI, Mrs. Aparajita Bhuyan, Senior Advocate; Guwahati High Court, Dr. Chandan Goswami, Associate Professor, Dept. of Mass Communication and Journalism; Guwahati University and Mr. Amarjit Deb, Assistant Professor, Dept. of Commerce & Management, Assam Don Bosco University. Further, there were also dummy eminent members of Parliament like The Prime Minister, Speaker, Secretary, Foreign Delegates, Press and Media and other important members who were role playing and part of this iconic event. The Youth Parliament led to a heated debate among the participants. Each of the teams presented their views and opinions on the topic and also corroborated with facts. The voice from the youth electrified the environment and it was an enriching experience for all of us to watch such an event by the youth of our country. The event concluded with summarizing the points of all the teams from both sides and cash prizes of Rs 5000 and Rs 3000 were awarded to the winning teams.

## Extension lecture by Sh. K. Touthang, Jt. Secretary, Ministry of Youth Affairs, 24 October 2019

Shri K. Touthang, Joint Secretary, Government of India, Ministry of Youth Affairs and Sports, gave an hour-long interactive lecture to the MBA students. During his discourse he touched upon aspects of students' careers like jobs and how there were no jobs in the Government sector at the time being and students should develop the urge to become employers rather than getting employed. He also emphasized the need for skill-based learning and said that there is always employment for the skilled. He concluded his interaction with the idea of "Glocal" which is to think global but act local. The visit of Sh. K. Touthang was as part of the NSS trainers' conference that was held at DBI on 23rd and 24 of October, 2019.

## Fuse Brain, 26 October 2019



The 2nd edition of FUSE BRAIN was held on 26th October, 2019 during PRAJYUKTTAM under the aegis of Dept of Commerce and Management, Assam Don Bosco University. The quizmaster for the event was Mr. Derajuddin Ahmed. The event began with felicitation of our quizmaster and our Pro VC Fr. Joseph Nellanatt and Director, SOT, Prof. Manoranjan Kalita. A total of 54 teams (107 participants) took part in the competition with 13 teams outside ADBU. The teams from ADBU comprised of students from B.Tech, BCA, B.Com, M.Com and BBA. The winner of the event was the team from Tezpur University and the runner's up from Gauhati University. The competition was conducted over two phases: Qualifying Round and Final Round. Six teams qualified for the final round that fought for the first and the second position over three rounds of questions.

## Vigilance Awareness Week, 24 -31 October 2019

Don Bosco Institute of Management observed the Vigilance Awareness Week 2019 with the theme "Integrity- A way of life" from October 24 – 31, 2019. The event was conducted to affirm our student's commitment to promotion of integrity and probity in public life through citizen participation.



As a part of the event, a lecture session by one of the faculty on the significance of Integrity and Ethics in one's life's was given. The students were briefed through real life examples of celebrated personalities about why one should be committed to integrity as a core value. The students were updated on the role and functioning of the Central Vigilance Commission and its pivotal role at the primary watchdog for the public sector enterprises in the economy. There were also other events such as intra-class debates and quizzes on the "Role and Functioning of the Central Vigilance Commission" to test the

awareness level of the students. All staff and students also undertook the Integrity pledge whereby they reaffirmed their conviction that they would uphold their highest standards of honesty and integrity and to abide by the rule of law in all walks of life.

### **Julhash Ali Library Month, 3 October – 2 November 2019**

“A room without books is like a body without a soul” said Marcus Cicero. The much awaited Julhash Ali Library Month closing ceremony was held on November 2, Saturday, at DBIM.

Dr (Fr) P.D John, Director DBIM, conducted a Quiz competition which was the highlight of the closing ceremony. Winners received a cash award of Rs. 2000 along with citations and certificates.

### **National Education Day, 11 November 2019**

11th November, the birth anniversary of Maulana Abul Kalam Azad, great freedom fighter, eminent educationist and the first Union Minister of Education was observed as the National Education day. This year November 11 was a Monday and hence the day was observed as part of the DBIM Prajjwal initiative on November 10. The faculty coordinator for Prajjwal, Mr. Hrishikesh, assisted by Mr. Abhinav, spoke at length about the contributions of Maulana Abul Kalam Azad in transforming the education scenario in India and the importance of education in socio-economic upliftment of the society. This was followed by various competitions like essay writing, drawing and poetry recitation for the poor students of the neighborhood who participate in Prajjwal.

### **Observation of Indian Constitution Day, November 26 2019**

As per the directive from All India Council of Technical Education (AICTE), the School of Commerce and Management observed 26th November as the Indian Constitution Day. This was the day the Constitution was adopted by the Constituent Assembly back in 1949.



The students of MBA, first and second years, got together to watch the “Constitution Day” celebration held in New Delhi which was broadcasted live through the projector after singing the National Anthem. The Student leaders read out the Preamble, for others to listen and note down important points. This was followed by a Debate, also organized by the student body themselves, regarding topics related to the Indian Political situations as well as topics on the historical events that led to the current scenario India is facing as a country. The same day also saw an interaction programme with Assam State Legal Services Authority on various topics based on the Constitution of India.

### **Project based learning trip to Siloam, 28 November – 1 December 2019**

The objective of the trip is to enable the students to experience project based learning, leadership skills and social responsibility. The first year MBA students undertook a trip to Siloam, Umiam on November 28.

On the two days, students had sessions on leadership and life skills by Dr (Fr) George Palamattathil, Director, Siloam Wellness Center, conducted sessions. The crux of the training was an emphasis on turning events into experiences and how a leader should be able to own up responsibility in case of failures and project the entire team in case of success. The students got an understanding of how to effectively and efficiently organize and manage events of such scale and magnitude.

### **TALLY workshop, 27 - 30 January 2020**

A four-day training session on Tally was organized for the 1st year MBA students from 27th to 30th Jan 2020. The purpose of the session was to enhance learning of the students on the importance of Tally ERP-9 software for simplifying the accounting methods and procedures. They were trained on creating /selecting any company and group creating. A detailed lecture on accounts and voucher entries were discussed along with practice session on individual basis. The students were also taught about creating and extracting the financial statements and other statements related to inventory management, depreciation accounting and VAT procedure and records. The knowledge gained will enable the students to apply them in various aspects of their daily / professional activities.

### **One-Day Workshop on Research Methodology, 27 January 2020**



One day workshop on Research Methodology was organized by the Department of Commerce at the Conference Hall, ADBU, Azara Campus on 27th January, 2020. This workshop was organized by Dr. Rashmita Barua, Dr. Pramod Sharma. The sessions were conducted by Dr. Rashmita Barua, Dr. Pramod Sharma and Dr. Anupam Chanda. A total of 83 participants belonging to final semesters of BCom and MCom were present. The objective of the workshop was to provide an understanding of research in commerce and management. Accordingly, the workshop session started with the introduction and significance to research and the workshop was concluded with the discussion on the ethical issues in research including plagiarism problems.

### **3-Day Entrepreneurship Awareness Camp, 31 Jan - 1 Feb and 3 Feb 2020**



The department of Commerce conducted a three day awareness camp which focused on the cognizance of entrepreneurship and grooming of budding entrepreneurs, between 31 Jan – 1 Feb and 3 Feb 2020 at Azara Campus. The first day of the workshop was conducted by a start-up training organisation called “Start-up Assam” headed by Mr. Pankaj Gogoi and the students were given sessions on how to spend time building for creating an entrepreneurial ecosystem in the state of Assam. A detailed discussion on Business plan preparation and its various components were explained for preparing a project report/ b-plan. Second day the financial aspects of a Start-Up were explained by Mr. Abhshek Choudhury. Monetization strategy for generation of funds at various stages of one’s start-up and how to raise funds for the same were some of the topics. The last day of the camp was dedicated towards familiarizing the participants with the practical facet of industries.

### **Extension lecture on Investor Awareness, 1 February 2020**

Mr. Kennedy Rina, Manager at SEBI, Guwahati, conducted a 2-hour session on investor awareness on behalf of the Securities and Exchange Board of India (SEBI). SEBI is the regulator for the securities market in India owned by the Government of India. Being established in 1988 and given statutory powers on 30th January 1992 through the SEBI Act, 1992. The students gained knowledge about the workings of SEBI through the interaction. The budding managers of Don Bosco Institute of Management got to learn of the financial industry. The students were given lecture on the topic of Primary and Secondary markets, how they work in real life situations, methods of Price determination, fixed and bidding issues. The lecture ended with a small discussion in terms of Financial Planning, Time and Compounding of the Principal.

### **Career Awareness Programme, 16 February 2020**



The Department of Commerce, Assam Don Bosco University, Azara, Guwahati conducted a one day ‘Career Awareness Programme’ in collaboration with Institute of Company Secretaries of India (ICSI), North Eastern Chapter of ICSI on 18th February, 2020 in the college premises. A total of 85 students participated in the seminar including the students and teachers from the Department of Commerce. The seminar started with a Welcome speech by the chief guest, CS Pradeep Sharma, Secretary of North Eastern Chapter of EIRO of ICSI by quoting the motto of ICSI “Satyam Vada, Dharmam Chara” which means to speak the truth and abide by the law. The resource person of the seminar was Mr. Chiranjeeb Sarma Roy, Office in Charge, North

Eastern Chapter of ICSI addressed the students about the career opportunities as Company Secretary, the roles of a Company Secretary, CS Profession and the criteria for CS Executive Entrance Examination. The seminar was productive as the students were able to acquire valuable information about the scope of pursuing the Company Secretary course and the programme ended with light refreshments provided by ICSI.

### **Unnat Bharat Abhiyan under NSS, 17 February 2020**



An awareness program on "hand hygiene" was organized by Don Bosco Institute of Management (A constituent unit of Assam Don Bosco University) under Unnat Bharat Abhiyan National Service Scheme (NSS) on February 17, 2020.

It is a well-known fact that hand washing is the first basic step towards achieving any millennium goals for development. It saves lives. Stopping infections is in our hands. Hence, with the goal of imparting the knowledge of the most effective way of getting one's hand cleaned, 12 student volunteers from the Don Bosco Institute of Management, under the supervision of their mentor, Hrishikesh Debnath set out to visit 2 different schools on 17th February, 2020 in the vicinity of Joypur, Kharghuli to spread awareness regarding hand hygiene and how important it is to keep one's hands clean.

The students were asked to spread awareness about hand hygiene among their family members as well. The session lasted for about an hour and the volunteers received a positive response. They cared to hand over 2 liquid handwash bottles, a bucket, a mug and some tissue papers before leaving.

The basic purpose of this drive is to make people aware that clean hands are safe hands. The experience was an enriching one for both the volunteers as well for the students of both the schools and it is hoped that these 8 steps will be followed by everyone to reap the benefits of good health.

### **Investor Awareness Programme, 18 February 2020**



The Department of Commerce, Assam Don Bosco University, Azara, Guwahati conducted an Investor Awareness Programme in collaboration with Institute of Company Secretaries of India (ICSI), on 18th February, 2020 in the college premises. The program was coordinated by Faculty Ms. Neha Khaitan with constant support and guidance of Head of the Department, Dr. Biju Mani Das. The session was attended by around 120 students

including teachers. The Guest of Honour were CS Pradeep Sharma, Secretary of North Eastern Chapter of EIRO of ICSI and CS Praveen Kumar Chhajer, Ex-Chairman of North Eastern Chapter of ICSI. The resource persons were CS Harsh Baid and Ms. Garima Daga, a qualified Company Secretary.

Mr. Praveen Kumar addressed the gathering and the session was continued by Ms Garima Daga. She gave an overview of the primary and secondary markets, Prospectus and IPO Grading. CS Harsh Baid carried the session forward by giving us few insights about how to invest in the capital markets and opening a demat account. He showed the audience how to apply for an IPO. He further discussed about the Do's and Dont's while making any kind of investment. The session ended with a Question and Answer round, distribution of certificates and a Group photograph. The seminar was very productive to all the students as they could learn how to invest smartly in the stock markets, general awareness about investment, capital markets and IPO.

### **Industrial Visits, 29 February 2020 and 3 March 2020**

An industrial visit to 'Amul Processing Centre, Blueberry Industry' was organized by Department of Commerce and Management, ADBU on 29th February 2020 from 8:45 am to 4:30 pm. A total of 53 participants were present in this industrial visit from B.Com 6th semester. The Industrial Visit was

conducted and co-ordinated by Amit Saha, Assistant Professor, Department of Commerce. Another industrial visit to 'Purabi Dairy' was organized by Department of Commerce and Management, ADBU on 3 March 2020 from 9:30am to 2:30pm which was organized by Purabi Dairy (West Assam Milk Union) Cooperative Society. A total of 61 students were present in this industrial visit which comprised of M.Com 2nd semester and BBA 2nd semester students. The Industrial Visit was conducted and co-ordinated by Amit Saha, Assistant Professor, Department of Commerce.



### **International Women's Day, 8 March 2020**



Marking the International Women's Day, a program was conducted by Don Bosco Institute of Management, Celebrating the International Women's Day in collaboration with the closing ceremony of NSS Program as on 8 March 2020. The Chief Guest who participated in the programme was Smt. Pallavi Kachari, Collector, Guwahati Municipal Corporation.

The programme began with a song "Girl is on Fire" by two students of Don Bosco Institute of Management which was dedicated to all the women which followed by The Chief Guest addressing the gathering. She said that she was mesmerized and overwhelmed at the energy that she saw around. She talked about values; the first values are learned in the family. We must teach our sons to respect girls. Any girl's responsibility is in the hands of the men. Men should also learn how to treat women. She concluded by saying: Be positive in life, stay healthy, stay happy and stay united. A short video was presented by Sr Magdalene, giving an overview of the "International Women's Day". The Event ended by paying respect to the nation with the National Anthem.

### **Prajjwal Day, 15 March 2020**



Prajjwal is a social initiative program taken up by the Don Bosco Institute of Management to promote a sense of social responsibility among the MBA students. Every Sunday the MBA students' tutor the children of the nearby village of Joypur. The students range from class nursery to class 12. Prajjwal day commemorates the year ending for this initiative. This year it was held on 15 March 2020. Along with Dr (Fr) P. D. John, Director DBIM, Fr. Paulus, DBIM Hostel Warden, Mr. Hrishikesh Debnath, MBA Faculty and other faculty members as special guests for the program, all the DBI

students also witnessed the program. The programme consisted of the dances, song performances, poetry recitation by the students of Prajjwal.

The programme concluded by giving mementos to those students who excelled in academics and notebooks were given to students who had achieved an overall percentage of 60 and above in their academics. Other prizes were given out to the students who had won the competitions conducted in the earlier weeks.

## School of Fundamental and Applied Sciences

### Physics Department Foundation Day 2019, 1 April 2019



The Physics Department of Assam Don Bosco University celebrated its first foundation day on 1st April 2019. Most of the students and all the faculty members of the department were present there in a little celebration and they spoke on different aspects of the department. There were also a number of other entertaining items in the programme which ended with the cutting of cake and refreshments.

### 21<sup>st</sup> Foundation Day of PANE, 6 April 2019



21st foundation day celebration of the Physics Academy of North East (PANE) was organised by the Department of Physics, ADBU in collaboration with PANE, on 6th April 2019. The dignitaries present at the programme were Rev. Fr. (Dr.) Stephen Mavely, the Vice-chancellor of ADBU, president of PANE, Prof. Dilip Kumar Choudhury, Prof. Bipul Bhuyan, General Secretary of PANE and Prof Biswarup Mukhopadhaya of Harish-Chandra Research Institute. The gathering was enlightened on the details of the vibrant role played by PANE in the last two years. The release of PANE newsletter was inaugurated during the programme. Prof Biswarup Mukhopadhaya of Harish-Chandra Research Institute delivered a lecture titled There are more things in heaven and earth: the quest for new fundamental laws of physics. At the end of the programme, there was a formal handing over of the charge of PANE to the new executive board, formed for next two years. Hundreds of participants including faculty members, scientists, research scholars and students from different institutions of Northeast India were present to celebrate the occasion.

## Postgraduate Students' Study Tour 2019, 11 - 16 April 2019



The Department of Physics, ADBU had organised a study tour to Kolkata between 11 April 2019 and 16 April 2019 for MSc (Physics) students of the final semester. The primary objective of this study tour is to attain exposure to higher studies and research in Physics in other institutes of the country. During

this tour, four places were visited - both educational as well as recreational - Saha Institute of Nuclear Physics, Victoria Memorial, Science City Centre and Bose Institute.

## Feyn-videos 2019, 11 May 2019

The Physics Department organised "Feyn-videos 2019" - An audio-visual show of science videos (commemorating the birth- day of Richard Feynman), commemorating his 101th birthday, on 11/05/19 at 10:00 a.m., in the Hall-240 of the Academic Block I. One of the best known and most renowned scientists in history, Richard Feynman was probably also the most celebrated and appreciated teacher of last century. To listen to his lecture students and faculty members from different departments were present in the programme. Earlier, Dr. Samrat Dey, Head, Physics Department, welcomed everyone to the event and Mr. Parag Bhattacharya spoke on the life of the Nobel Laureate.

## Seminar: The Goodness of Imperfections: The Curious Case of Nanomaterials, 26 July 2019



On 26 July 2019 the Department of Physics, in collaboration with the Centre of Excellence in Nanotechnology (CoEN) at ADBU, had organized a seminar titled The goodness of imperfections: A curious case of nanomaterials. The special lecture was delivered by Dr. Ramakrishna Podila, a prolific researcher in the field of material science and who is the current Research Director at Clemson Nanomaterials Institute of Clemson University, South Carolina, USA. Students and faculty members across different departments of the university and other institutes attended the seminar which was held around 1:00 p.m. and 2:30 p.m. in the Auditorium of Academic Block I. During his talk, Dr. Podila put forward the case of the significance of imperfections and defects as a means to achieve novel phenomena and create enhanced materials. His talk was peppered with numerous demonstrations of projects undertaken by researchers in his lab, wherein "defects" in "ideal" materials were exploited to develop better and cleaner ways to generate and store energy, to develop better diagnostic tools and biosensors, to attempt in personalizing medicine and, most importantly, to unravel new fundamental physics. The intriguing yet engaging talk was followed by an interactive session where Dr. Podila responded to many questions and comments from members of the audience.

## Symposium on Schrödinger Picture 2019, 13 August 2019



The Department of Physics had organised the Symposium on Schrödinger Picture 2019 commemorating the 132nd birthday of Prof. Erwin Schrödinger on 13 August 2019 at 10:00 a.m. in the Auditorium of Academic Block I. A large number of participants from different departments of ADBU and other institutes had participated in the programme. Dr. Samrat Dey, the head of the department, in his introductory comments, mentioned that Schrodinger was a Nobel Prize-winning physicist who had developed a number of fundamental results in the field of quantum theory. Dr. Dey shared the astonishing trivia that James Dewey Watson, another Nobel Laureate, was actually inspired by Erwin Schrödinger's book *What Is Life?* and eventually went on to propose the famous double helix structure of the DNA molecule in biology. Prof. Poullose from the Department of Physics at IIT Guwahati, the invited speaker for this occasion, spoke on all these and other aspects of Schrödinger's life. Furthermore, Prof. Poullose also explained in details the intrinsic concepts of portions of quantum mechanics developed by Prof. Schrödinger. The symposium concluded after an interactive session between the audience and the speaker.

## Workshop on Computational Physics 2019 Using Python, 1 - 2 November 2019



A two-day workshop titled Workshop on Computational Physics 2019 using Python (WCP 2019) was organized by the Department of Physics during 1 – 2 November 2019. The purpose of this workshop was to enable the participant to implement numerical analysis to solve problems in physics for which a quantitative theory already exists. The software tool used for the same was Python (which is free to use). The participants were provided with hands-on experience of developing software code on Linux workstations for various physical problems, apart from talks on various topics in the field by eminent resource persons. Apart from the students from the Department of Physics, ADBU, research scholars, undergraduate and postgraduate students from other universities, namely Rajiv Gandhi University (Arunachal Pradesh), Bodoland University (Assam) and University of Science & Technology (Meghalaya), had also registered and participated in the workshop. The resource persons included Dr. Shubhankar Roy, Gauhati University, Mr. Parag Bhattacharya from the Department of Physics, ADBU, Dr. Subir Sarkar from Arya Vidyapeeth College, Guwahati At the end of the workshop certificates were distributed to the participants.

## **The Story of our Inspiration 2019, 16 August 2019**



On 16 August 2019, the Department of Physics had organised The Story of our Inspiration 2019 – an audio-visual show depicting the life of St. John Bosco, our inspiration, in commemoration of his 204th birth anniversary. The event took place from 12:15 p.m. onwards in the Auditorium of the Academic Block I. Fr. Stephen Mavelly, the Vice-chancellor of ADBU delivered the inaugural speech, wherein he broached about how Don Bosco, in spite of a lot of hurdles - from within and without - could achieve his dreams with his tremendous perseverance and faith in God. The Vice-chancellor also appreciated the efforts of the Physics Department in organising the event. The audio-visual show comprised of a screening of the 2004 Italian television movie Saint John Bosco: Mission to Love directed by Lodovico Gasparini. With Flavio Insinna, Lina Sastri and Charles Dance in leading roles, the feature film beautifully portrayed the key events from the life of St. Don Bosco, from his childhood to the establishment of Salesian Society, which today is a global organisation catering to millions of needy children. More than two hundred students and a large number of faculty members from different departments of various schools of ADBU were present during the show. After the show the students and faculty members walked to the statue of Don Bosco at the university rotunda and lit candles in his memory.

## **NET Mock Test & Mock Interview II 2019, 26 September 2019**

On 26 September 2019, the Department of Physics had conducted the second mock test along the lines of the UGCCSIR National Eligibility Test (NET), followed by mock interviews, for all the postgraduate students of the department. The activity was conducted in the university library. The first phase of activity for this year was conducted on 27 March 2019.



By participating in the mock test students were able to understand the question pattern and time management for answering. During the mock interviews, students were exposed to different types of questions from physics, general knowledge and aptitude; opportunities were also given to few students to explain to the panel a specific topic on the board. The activity was coordinated by Mr. Dipiyoti Sarma along with all the other faculty members of the department.

## **Workshop on 'Introduction to Basic Mathematics', 17-18 October 2019**



The Department of Mathematics in collaboration with Department of Economics organized a two day workshop titled “Introduction to Basic Mathematics” at Administrative Block 1, Assam Don Bosco University on 17-18 October 2019. The purpose of the workshop was to reintroduce basic mathematics to the under graduate student of Economics and Mathematics to help them understand better the concepts and applications.

At the inaugural session, the Vice Chancellor Fr. Stephen Mavelly spoke on the importance of mathematics in our daily life and the need to eradicate fear of mathematics. He also encouraged the students to spend more time in solving mathematical problems – which is a key to master mathematics.

During these two days lectures were delivered by Dr. Saugata Purkayastha, Dr. Sanjay Dutta, Dr. Hemen Bharali and Dr. Fokrul A Mazarbhuiya. The workshop was attended by 38 participants and it was coordinated by Dr. Hemen Bharali, HoD, Department of Mathematics and Dr. Kasturi Goswami, Department Incharge of Economics.

### **Workshop on Computational Physics, 1-2 November 2019**



A two-day workshop on Computational Physics 2019 using Python (WCP 2019) was organized by the Department of Physics on 1-2 November 2019. The purpose of this workshop was to enable the participants to implement numerical analysis to solve problems in physics for which a quantitative theory already exists. The software tool used for the same was Python (which is free to use). The participants were provided with hands-on experience of developing software code on Linux workstations for various physical problems, apart from talks on various topics in the field by eminent resource persons. Sessions were conducted by Dr. Shubhankar Roy, Dr. Subir Sarkar from Arya Vidyapeeth College, Guwahati, Mr. Parag Bhattacharya and by Dr. Samrat Dey. Apart from the students from the Department of Physics, ADBU, research scholars, undergraduate and postgraduate students from other universities like Rajiv Gandhi University (Arunachal Pradesh), Bodoland University (Assam) and University of Science & Technology (Meghalaya) participated in the workshop.

### **Wall magazine of the Department of Physics - Gravitum 2019, 6 November 2019**



This year's edition of Gravitum, the wall magazine of the Department of Physics, was inaugurated by the Vice-chancellor, Fr. Stephen Mavely, on 6 December 2019 during the morning assembly. The name of the wall magazine is a portmanteau of the words gravity and quantum. While the former describes the physics at the cosmic level, the latter explains the same at subatomic scales. Members from both the co-curricular clubs of the department, namely the Physik Club and the Astronomy Club, were involved in the design and completing of the wall magazine. The articles, covering a wide spectrum of topics, basically reflected the fact that physics is omnipresent.

### **The World of Science 2019, 7 November 2019**



The Department of Physics commemorated the birth anniversary of Mme. Marie Curie and Sir C. V. Raman by organizing The World of Science 2019, an awareness programme for school students of the nearby region. This programme was coordinated by Dr. Ngangom Aomoa, and assisted by other members from the department. Students and faculty members from both the co-curricular clubs of the department, namely the Physik Club and the Astronomy Club, together with other members of the department and accompanied by some members from other departments used a variety of models and experiments were demonstrated, simplifying different aspects of science around us. In this outreach programme, working models were utilised as tools to enunciate the various scientific principles that govern our daily lives, with a view to eradicate the fear of higher education in science among school children and to incubate a scientific temper. This year, the programme was organised under Unnat Bharat Abhiyan (UBA), a flagship programme of the Ministry of Human Resource Development (MHRD), Government of India. Around 50 students of Arya Vidyapith School and 100 students from Kamarkuchi High School actively participated in the event.

### **SANKHYA-An event in memory of Srinivasa Ramanujan, 14 November 2019**

The event SANKHYA was conducted by the department of Mathematics in collaboration with Mathletes co-curricular club on 14th of November, 2019. The event was organised to commemorate the birth anniversary of Srinivasa Ramanujan, the legendary Indian mathematician. An inter-department essay writing competition and a departmental poster presentation cum competition were held during the event. The event began with the inaugural speech by Dr. Monmoyuri Baruah, Director, SFAS followed by brief speeches by Dr. Samrat Dey, Head, Department of Physics and Dr. Kanan K. Ojah, Asst. Professor, Department of Mathematics. Dr. Sanjoy Dutta, Asst. Professor, Department of Mathematics narrated the life and important works of Ramanujana thereafter. The inaugural event ended with a film show on the life of Srinivasa Ramanujan. The entire inaugural event was coordinated by Dr. Fakrul Alom Mazarbhuyan, Asst. Professor, Department of Mathematics. In the post lunch session, the poster exhibition cum competition was held at the atrium of academic block I where the departmental students explained some of the most famous theorems in Mathematics. Dr. Samrat Dey, Head, Department of Physics and Dr. Nibedita Kapil, Asstt. Professor, Department of Chemistry graced the session as Judges. In all, nearly 60 students participated in the event.

## **2nd Annual National Conference - Trends in Modern Physics 2020, 24 - 25 February 2020**



The Department of Physics at Assam Don Bosco University organised its 2nd annual national conference titled Trends in Modern Physics 2020 (TiMP 2020) during 24th – 25th February 2020. Dr. Debajyoti Dutta from the Department of Physics, ADBU was the convener of the conference, along with his colleagues Dr. Ngangom Aomoa and Mr. Dipjyoti Sarma as the co-conveners. Around eighty participants from sixteen different institutions from the Northeast and other parts of India presented their research during the event. For the inaugural session, Prof. Sudhakar Panda, FNA, NNASc, Director of NISER, was the Chief Guest while Prof. N. Nimai Singh, Head of the Department of Physics at Manipur University, and Prof. Dilip Kumar Choudhury, Professor (retd.) of the Department of Physics at Gauhati University, were the guests of honour. Dr. Samrat Dey, Head of the Department of Physics, shed light on why the Physics Department is carrying out this series of national conferences (TiMP) in particular and all the events, in general. Dr. Debajyoti Dutta presented a brief overview of the conference. He also explained the purpose of organising these annual conferences in Northeast India for the young researchers of the region who can share their ideas and also solicit suggestions and help from renowned academicians from various parts of the country. Dr. Monmoyuri Baruah, Director of the School of Fundamental and Applied Sciences, ADBU and Prof. Atri Deshmukhya, Head of the Department of Physics at Assam University, also spoke on the occasion. The vote of thanks was delivered by Dr. N. Aomoa and the event was anchored by Mr. Parag Bhattachaya, both from the Department of Physics, ADBU. The inaugural session was followed by the plenary talk delivered by Prof. Sudhakar Panda. In the course of his talk, Prof. Panda discussed about the possible scope and challenges in physics, with a special focus on high energy physics. The conference then proceeded with five oral technical sessions with a number of invited talks and contributory talks dedicated to the trust areas – particle physics, astrophysics & cosmology, plasma physics, nuclear physics and material & nanophysics stretched during these two days. The invited speakers included luminaries such as Prof. N. Nimai Singh, Prof. Mrinal K. Das from the Department of Physics at Tezpur University, Prof. Atri Deshmukhya, Prof. Madhurjya P. Bora from Department of Physics at Gauhati University, Prof. B. N. Jyrwa from the Department of Physics at North-Eastern Hill University, Dr. Smruti Ranjan Mohanty from Centre of Plasma Physics – Institute for Plasma Research and Prof. Sunandan Baruah, Director of the Centre of Excellence in Nanoscience, ADBU. This was followed by an interactive poster presentation session wherein a large number of posters were presented. During the valedictory session, many of the participants shared their feedback as well as their thoughts, followed by the deliverance of the vote of thanks by the convener of TiMP 2020.

## **Workshop on Basic Plasma Physics 2020, 12 - 13 February 2020**

The Department of Physics at Assam Don Bosco University organised a two day Workshop on Basic Plasma Physics 2020 (WBPP 2020) during 12th – 13th February 2020. The workshop was primarily meant for undergraduate students from the north-eastern region of India, who are interested in going for higher studies, to educate them about plasma physics and motivate them to pursue a career in plasma physics. Apart from the students of the department, the workshop was attended by 28 external participants coming from seven colleges and institutes of Assam and Meghalaya.



The technical sessions were conducted by Dr. Ngangom Aomoa, from the Department of Physics, ADBU Dr. Sumita Sharma, DST Woman Scientist from the Institute of Advanced Study in Science and Technology (IASST), Dr. Pratikshya Bezbaruah, Dr. Partha Saikia from CPP-IPR. The participants had a hands-on session with the glow discharge plasma device in Plasma Physics Laboratory in the Department of Physics, ADBU. Dr. Monmoyuri Baruah, the Director of the School of Fundamental and Applied Sciences, distributed the certificates to all the participants.

### **Postgraduate Students' Study Tour 2020, 9 - 15 January 2020**



The Department of Physics at Assam Don Bosco University had organised a study tour to Kolkata during 9th – 15th January 2020 for all the M.Sc. (Physics) students of the final semester. The tour was coordinated by Mr. Parag Bhattacharya, Assistant Professor, Department of Physics, ADBU. The primary objective of this study tour is to attain exposure to higher studies and research in Physics in eminent institutes in the country. During the course of the tour, five main destinations were on the itinerary – both educational as well as recreational – Saha Institute of Nuclear Physics, Bose Institute, Science City, Victoria Memorial and Nicco Park. Apart from visits to the state-of-the-art laboratories, the students had fruitful interactions with eminent scientists, Prof. Maitreyee Nandy and Prof. Susanta Lahiri, both from the Chemical Sciences Division, and Prof. Maitreyee Saha Sarkar, from the Nuclear Physics Division. One of the highlights was the visit to the particle accelerator, whose sheer scale of operation left the entire group spellbound. With hearts laden with memories and minds enriched by priceless experiences, Team Physics returned to home base on 14 January 2020.

### **Workshop on Basic Plasma Physics 2020, 12-13 February 2020**



A two-day workshop on Basic Plasma Physics was organized by the Department of Physics on 12-13 February, 2020. The workshop was organized for undergraduate students of North East India to motivate them to take up plasma physics as their specialization in their higher studies. The workshop was attended by 28 external participants coming from seven colleges and institutes of Assam and Meghalaya and students of the Department of Physics. The technical sessions were conducted by Dr. Sumita Sharma, DST Woman Scientist, IASST, Dr. Pratikshya Bezbaruah, ADBU and Dr. Partha Saikia, CPP-IPR. Certificates were distributed at the end of the workshop.

### **National Science Day- ADBU Science Quiz 2020, 28 February 2020**



The annual ADBU Science Quiz was organised by the Physics Department on 28th February 2020, the National Science Day. Dr. Pratikshya Bezbaruah from the Department of Physics, ADBU, was the coordinator for the event and her colleague Mr. Parag Bhattacharya was the Quizmaster. Around twenty five teams (with two members each) from different departments of all the schools of the university had participated in the preliminary round after fulfilling the due process of nomination. The top four teams then battled it out during the Finalé. Owing to the disruption due to the COVID-19 pandemic, the distribution of the prizes and certificates has been deferred for the time being.

### **Outreach Program conducted by the Department of Mathematics on National Science Day 2020, 28 February 2020**



Aligned with the motto of social commitment of the University, the Department of Mathematics endeavored to undertake a social outreach program. Based on the objective and principle of service learning, the Department made sure to connect with the school children to spend some time with few budding minds, full of quest and anxiety. On 28th February, the Department visited Kamarkuchi High School, Sonapur on the occasion of National Science Day. The reason for taking up this job on this very day is twofold: first, as already noted, to connect with the young minds to nurture their scientific temper having been inspired by Sir C.V, Raman for whom Science was more than a discipline and secondly, to spread across the message of togetherness, motivated by the culture prevailing at the university. 150 students were waiting eagerly to have some extravagant activity, the department received warm welcome. Dr. Hemen Bharali, Head, Department of Mathematics briefed the students about the essence of National Science Day, Dr. Kanan Kumari Ojah narrated the role and contribution of women scientist across the world to the students. At the end an engaging session with the students was conducted through various colorful activities for instance painting competition, solving mathematical puzzles and riddles to name a few.

### **International Day of Mathematics 2020, 13 March 2020**

International Pi Day/International Mathematics Day is celebrated every year on 14th of March. This year, The Department of Mathematics, Assam Don Bosco University celebrated the day on 13th of March through a couple of informative lectures touching upon various aspects of the number Pi followed by a fun competition organized for the students. Dr. Hemen Bharali, Head, Department of Mathematics inaugurated the event by a short speech on the essence and importance of the Day. The Programme consisted of lectures "Mathematics is everywhere" was delivered by Prof. T.K. Dutta of department of Mathematics, Assam Don Bosco University, "Higher Order Compact Simulation of Spiral Waves in Excitable Media" by Prof. Jiten Ch. Kalita of Indian Institute of Technology, Guwahati. The event was concluded with a fun competition on memorizing and listing down the digits of Pi.

## School of Humanities and Social Sciences

### World Autism Day, 3 April 2019



To commemorate World Autism Day the Department of Psychology and Counselling in collaboration with Ashadeep Day Rehabilitation Center organised an exhibition cum sales programme on 3 of April 2019 at Assam Don Bosco University Tapesia Campus.

The objective for organising this programme was to create awareness about Autism as well as to help, encourage and support individuals who were recovering from mental illness through the fund raised from selling the items made by the individuals themselves and would be handed back to Ashadeep who in turn will use the money to support these people. Ashadeep is a center that caters to individuals with intellectual disability, associated disorders and persons recovering from mental illness. The Centre has a vocational unit that provides skill development training to the intellectually disabled adults and persons recovering from mental illness which forms a part of the therapy as well as a source of facilitating income generation. The event began with a brief talk about World Autism day during the morning Assembly which was followed by a seminar conducted by Dr. Sanghamitra Bora (State Lead – Palliative Care, Assam Cancer Care Foundation, Joint Initiative of Govt of Assam and Tata Trusts, Guwahati, Assam). Later in the day, three students belonging to MSc. Psychology and Counselling had an interview conducted by the department of Mass Communication of what Autism is and their experiences of working with an autistic child. This was broadcast by the Tapesia F.M. Radio during the afternoon session

### Substance Abuse Awareness Camp, 17 May 2019

The Community Counselling Cell of the Department of Psychology and Counselling, Assam Don Bosco University, Tapesia Gardens organized a Substance Abuse Awareness Camp on 17th of May, 2019. This camp was organized for the residents of Kamarkuchi village. The purpose for conducting this camp was to create awareness among the villagers about the ill-effects of using substances and how it impacts an individual's physical, mental and behavioural well-being.



The Department of Psychology and Counselling extended an invitation to the members of the Hope Foundation, Guwahati to join the Community Counselling Cell as a Resource Team, for the occasion.

The event saw the participation of 14 male participants from the village and some of the participants also brought along their children to the camp. The Msc. Psychology and Counselling (2nd semester) students played an active role in ensuring that the entire event was conducted smoothly and most of them took care of the logistics of the event. At the end of the programme, the MSc. Students conducted a self-evaluation screening test using- Michigan Alcohol Screening Test (MAST) for the participants which helped them gain an understanding about their level of problem drinking.

### **Street Play at Sonapur, 18 May 2019**



The Department of Mass Communication, Assam Don Bosco University carried out two street play performances on the 18th of May. The performances were delivered at two different locations of the same locality in Sonapur near its Tapesia Campus.

The first-year Mass Communication students were divided into two groups. Each group under the supervision of Assistant Professors Mr. Kaushik Bhuyan and Mr. Jai Kishan attempted to create a 10-minute play focusing on different social themes to generate awareness and bring about changes among the people in the locality. The dialogues were delivered in Hindi as well as Assamese. One group focused on cleanliness and the detrimental effects of littering, while the other group highlighted the insecurities surrounding women as a result of eve teasing and to make them aware of the presence of organisations that provide security to women faced with similar situations. Both performances were well appreciated and believed that they had brought justice to their respective themes.

### **World Press Freedom Day Observed, 3 May 2019**

An invited lecture was organized by the Department of Mass Communication, Assam Don Bosco University on the occasion of observing World Press Freedom Day on 3 May 2019 at Tapesia Campus.



As part of the event, senior ward winning journalist and Executive Editor, NE Zine, Ms Ratna Bharali Talukdar delivered a special lecture on “Media for Democracy: Journalism and Elections in Times of Disinformation” to the media students and faculty members of the University. While highlighting the current challenges faced by media during elections and the growing prevalence of disinformation, along with the media’s potential in supporting democracy, peace and reconciliation, Ratna Bharali emphasised

that “it is necessary to ask critical questions and verify facts before putting it on public domain. Lies travel faster than truth.”

### **A National Conference on Social and Behaviour Change Communication for North Eastern Region, 8-10 August 2019**

The National Conference on SBCC for North Eastern Region was organized by Assam Don Bosco University in partnership with Department of Mass Communication & Journalism, Tezpur University and UNICEF. Objectives of the Conference

- Enhance capacity of academicians, researchers, policy makers, development practitioners, service providers and students to strengthen SBCC/C4D programming
- Create space for networking and developing partnerships in the SBCC sector in order to facilitate, engage and empower societies.
- Build SBCC agenda for all round development in the North Eastern Region of India.

### **Orientation Programme on Formative and Summative Evaluation, 13 August 2019**

An orientation programme was conducted for the students of undergraduate and Post graduate students on the formative and summative assessments to be undertaken by the students as a result of the objective based cum learning outcome based system. The concept of formative evaluation was explained properly and its merits were stated judiciously to motivate the students.

### **Capacity Building Programme for School Teachers, 17 August 2019**



Capacity Building Programme for School Teachers was organised for Borkhat Lower Primary School on 17 August 2019 under Unnat Bharat Abhiyan of Assam Don Bosco University Unit in collaboration with the Department of Education, Assam Don Bosco University. 19 teachers from different Lower Primary schools under Sonapur Circle were present. The objective of the programme is to promote the quality of education among the lower primary schools and Prof. K.C. Kapoor, Head of the Department of Education, Assam Don Bosco University was the resource person along with Dr. Tania Roy, Assistant Professor of the same Department. The Academic Activities performed included concept of Primary Education and its objectives (1200 hours to 1300 hours), structure of teaching, educational objectives, Setting question papers. There was an assignment was given to the participants, to prepare the list of problems faced by them in their primary schools on –Circle/Block

### **Life Skills Development, 1 and 15 September 2019**

On 1 September and 15 September, 2019, Life Skills Development program was conducted for the staff members of the canteen, ADBU, under the Community Counselling Cell of the Department of Psychology and Counselling. Under the supervision of Ms. Sampreeti Das, the students of M Sc. in Psychology (Psychological Counselling) organized several ice breaking sessions and a session to

introduce the concept of 'Mandala' to improve mindfulness and reason out solutions of a problem which would aid to the problem solving of the individuals

### **Inauguration of Community Computer Education Programme, 19 September 2019**



The University inaugurated its Community Computer Education Programme under Community Education Programme - education for sustainable development anchored by the department of Social Work, here today, 19 September 2019 in the presence of community children and university fraternity.

The project aims at creating and providing a platform and environment where community children and members can get access to E-education. The center especially targets the students of Government Schools around ADBU Sonapur campus; and envisages bridging the gap between theory and opportunity for practice on real computers of the government school children that teach computer lessons to students without computers. The students thus while attending theory computer classes in schools will get opportunity for practice with computers in the Computer Center at ADBU. The project 'aims at contributing towards sustainable Development Goals – Quality Education (SDG-4), Gender Equality (SDG-5), and Reducing Inequality (SDG-10)' according to Dr. Jacob Islary the programme coordinator.

The Computer center is housed in the University Service Center within ADBU campus. It has fifteen state of the art desktops that are able to handle – online and offline – basic to high end modules including programming, research and development oriented workshops and training. The first batch had 12 students and they have completed the course successfully; currently the second batch of 26 students and the third batch of 35 students attending the courses.

Speaking on the occasion Fr. Stephen Mavelly, Vice Chancellor, Assam Don Bosco University hailed the efforts of the team members for the project and recalled and expressed gratitude to University College Dublin Volunteers Overseas, Ireland for their 'collaboration with Assam Don Bosco University in actualizing the programme', and emphasised on 'the need for quality service to the community children if development is to be inclusive.' Certificates of completion were distributed to the 12 graduating students during the programme followed by refreshment for community children.

### **Certificate Course on Neuropsychology and its Applications, 30 September – 5 October 2019**

A Certificate Course on Neuropsychology and its Applications was organized by the Department of Psychology and Counselling in collaboration with experts from the University of Parma, Italy and Excel Hospital, Guwahati during 30th September – 5th October 2019 at Tapesia Campus.



In his keynote address, Prof. Roberto Ravera, Founder and Director of Ravera Children Rehabilitation Center, shared his experience of dealing with children in Africa who had been traumatized, neglected and faced abuses of various levels. He emphasized on the study of trauma from the neuropsychology perspective where there are many new challenges as the society changes. He also reminded that, psychology is a heuristic science where the complexities of human thoughts, emotions and behaviors are influenced and changed by environment and a new avenues of research and studies are open up to understand that complexities. He encouraged the participants to go out of the box and experience the complexities of human world and contribute our effort in bringing about a change for the wellbeing of human life.

Dr. Virginia outlined on the aims and objective of the course. The main aim of the course was to understand how the genetic makeup of a person influences and changes the psychological as well as the physiological aspect of a person. By understanding the anatomical and functional aspect of the nervous system, one can understand the causes of various mental illnesses as well as their behaviors, thus the course is undertaken to highlight the relationship of the human body and environment in the wellbeing of a person.

Fr. Biju Michael gave a concluding remark by sharing that ethics take reverse approach to neuropsychology in the understanding of human cognitions and behaviors. He also mentioned about the relation of human intelligence with emotional intelligence in the way we process our thoughts and connecting it to feelings.

During the one week course, various lectures and discussions on child development and developmental disorders, state of mind, mindfulness, self-control, mentalization, nature and nurture, nervous system of the human body, anatomical systems, biological systems, genetic clusters, trauma and attachments etc were held. These lectures were conducted by Professor Roberto Ravera and Dr. Virginia Ravera. On the last day Dr. Anweshak Das (Consultant Psychiatrist) discussed about the 'The Bridging Gap of Neuropsychiatry and Neuropsychology'.

The course was attended by 44 participants from various parts of India.

### **Guest lecture by Dr. Subudhi, NEHU, Tura Campus, 8 November 2019**



Dr. S.C. Subudhi, Associate Professor, Department of Education, North Eastern Hills University, Tura Campus, West Garo Hills Meghalaya, visited Department of Education Assam Don Bosco University on 8 November 2019 and had small interaction with the PG students. He enlightened the students and the faculty members on the need of the hour type of education which is known as Invisible Education. He triggered the young minds to think differently beyond Formal, Non-Formal, Informal Education and highlighted the need and importance of Invisible Education in our country like India.

### **National Education Day, 11 November 2019**

The Department of Education, Assam Don Bosco University, had observed National Education Day on the 11 November 2019, commemorating the birth anniversary of Maulana Abul Kalam Azad, The first Education Minister of the Independent India. The Department had inaugurated its first wall Magazine bringing along some general applicable and integrative concepts, inspirational quotes,

micro tales and students creative contribution as poems and posters which were displayed in the atrium.

### **Act of Kindness at Ferrando Transit Shelter Home, 16 November 2019**

On the occasion of Children's Day, the Rotaract Club of Pine City, Alumni of Assam Don Bosco University and Bansara Eye Care Clinic collaborated to brighten the lives of the children living in Ferrando Transit Shelter Home, Shillong on the 16th of November, 2019. During the inaugural function Sister Teresa Salemthangi, the Director of the Home, shared a brief history of the incomparable charitable work undertaken by the organization ever since its inception in 2008. Currently sheltering around thirty young girls, the home takes extensive care of all its inmates, providing them with a healthy environment and quality education.

An interactive session was also conducted where Ms Hazel Wahlang, coordinator of Center for Development Studies and Initiatives, made all the girls of the home dance to the beats of some euphoric songs. This was followed by a Free Eye Screening Camp organized in collaboration with Bansara Eye Care Centre where all the girls of the home were given an eye check-up and free medicines. The visiting team also handed over clothes, eatables and stationary items donated by students and staffs of Don Bosco University to the young girls residing in the home.

### **Workshop on Project Cycle Management and Mobilization of Resources, 21 - 25 October 2019**



The Department of Social Work organized a 5-Day Workshop on Project Cycle Management and Mobilization of Resources on 21 - 25 October 2019 at Tapesia Campus.

The workshop aimed to improve an understanding of different stages of project and its management including Planning (identification and designing), Implementation, Monitoring, Evaluation, and Documentation and also dealt with

resource mobilization techniques. A central value of Project Cycle Management (PCM) method is that all aspects of the project are reconsidered throughout the project cycle to ensure that any changes which have occurred are included in the project design.

The sessions consisted of Concepts of Projects Cycle Management, Project planning and its importance, Project identification (situational Analysis and Problem Tree Analysis), Designing of Project: Objective Tree Analysis, Logical Framework Approach: Concept of Results Based Management, Budgeting, Monitoring (Performance Indicators - Input and Output), Evaluation (Effect-Impact), Development of concept paper for projects, Sources to mobilizes resources, Strategies for resources mobili- zations and Skills required for resources mobilizations.

There were 24 participants from 8 Development Organizations in India along with the MSW students who took training on Management of Development Organizations. The workshop was coordinated by Dr. Lukose PJ, Head, the Department of Social Work.

## School of Life Sciences

### Industry – Academia Interaction Programmes, 3 April 2019



A One day Symposium on “Funding opportunities for research grants and higher studies in India and abroad” was organised by the department of Bio Sciences on 3 April 2019 so as to bring opportunities to all the students as well as the faculty members. The symposium was held at Tapesia Campus. The gathering was enlightened on various opportunities that are available for obtaining funding for the purpose of carrying out meaningful research for the benefit of the humanity and the real problems that need intervention of proper research.

### A one-day workshop on ‘Mushroom for the people: Issues and opportunities’, 8 April 2019



A one-day training program on mushroom cultivation, “Mushroom for the people: Issues and opportunities” was organized by the Department of Life Science for local farmers, on 8 April 2019 as a part of an activity of Vita Scientia Club.

Prior to this, students had undergone a twenty-five-day training programme to learn the steps of cultivation and to be able to give training to the local farmers around the University in the month of March, under the supervision and guidance of Dr. Monika

Soni, Asst. Professor in the Department. Mr. Mohan Sharma, Chairman of USHA (NGO) was invited on 8th of March to provide hands-on training to the students on Oyster (*Pleurotus* spp) mushroom cultivation.

During this training, students learned about the nutritional, medicinal, economic, environmental, and ecological benefits of this particular mushroom and also cultivated it themselves. After twenty five days of the training, there was a successful production of an adequate quantity of mushrooms. Students were encouraged to find a market for selling their products, which was part of encouraging and developing entrepreneurial skills among the students. Oyster mushroom is the third most commercially cultivated mushroom globally.

### **Field Trips, 31 March – 1 April 2019, 11 - 18 April 2019**



A field trip was organized for the second semester Students to Manas National Park from the 31 March to 1 April 2019. The trip was accompanied by two faculty members of the Department. Two separate field trips were also organized for the Final Semester students to Shillong and Mumbai. The students specialized in Fish and Fishery Biology visited Mumbai while those specialized in Cell and Molecular Biology and Animal Ecology and Wildlife Biology visited Shillong. The students were accompanied by faculty members of the

Department. The Shillong trip was organized for two days, 8 and 9 April while the Mumbai trip was organized from the 11 to 18 April 2019. The objective of the fields trips were to enhance the learning experience of the disciplines students study in their study.

### **Bioinformatics Workshop, 7 – 8 May 2019**

A two-day workshop on “Short term Training in Bioinformatics” was organized by NIELIT for the students of the Department on the 7th and 8th May 2019. The faculty and students took part in the workshop which imparted to them the basic skills in Bioinformatics. The resource persons were Dr. Saurav Mahanta and Ms. Anisha Chanda.



### **Intradepartment Networking, 17 May and 20 May 2020**

The Final Semester students are encouraged to share the skills and knowledge they acquire in their period of study at the University. They are given the opportunity to conduct equipment demonstration classes for the juniors who are supervised by the faculty. This is also to ensure that the students become confident individuals, ready to learn and ever willing to impart knowledge. Two demonstration classes were conducted by student volunteers from the final semester, Mr. Manash Pratim Rajbongshi, Mr. Dibyajyoti Kalita, Ms. Noklenola, and Ms. Jessica A. Sangma, on the 17th and 20th May. The students learnt the use of Clinometer and Densiometer from the volunteers.



### **Workshop on Turtle Biology, 11-12 June 2019**



A two-day workshop titled, “Let’s Talk Turtles” was jointly organized by the Department of Zoology, Assam Don Bosco University, Assam State Biodiversity Board, Turtle Survival Alliance, and Help Earth on 11-12 June 2019 at Tapesia Campus.

The workshop was designed to imbibe an interest in Turtle biology among the participants and building capacity of the

youth in turtle conservation. Topics covered in the workshop included turtle taxonomy, turtle biology, legal aspects, molecular taxonomy, turtle survey methodology etc. The resource persons of the workshop were experts in the field in turtle biology including Dr. Shailendra Singh of Turtle Survival Alliance, Dr. Saibal Sengupta of Assam Don Bosco University, Dr. Rajeev Basumatary of D.R. College and Dr. Madhurima Das from IBT Hub, Arya Vidyapeeth College and Dr. Jayaditya Purkayastha from Help Earth. During the workshop, turtle taxonomy, turtle biology, legal aspects, molecular taxonomy, the turtle survey methodology was addressed. A special session on threatened species of Assam notified U/S 38 of Bio- diversity Act of 2002 was conducted by Dr. Oinam Sunanda Devi, Scientific Officer in Assam State Biodiversity Board. The program was inaugurated by Fr. (Dr.) Francis Fernandez, Controller of Examinations, Assam Don Bosco University, Dr. Shailendra Singh of Turtle Survival Alliance and Dr. Prasanta Kumar Choudhury, Head of the Department, Department of Zoology, Assam Don Bosco University. Researchers and Research students from Cotton University, Gauhati University, ICAR, Assam Don Bosco University and NGOs' participated and benefited. Assam is home to 20 species of turtles making it the most species-rich state in India in terms of turtle diversity but unfortunately, 70% are threatened with extinction.

### **Health Camp by Vita Scientia, 12 November 2019**

Vita Scientia Club (Department of Bioscience) organized a health camp on 12 November 2019 at Tapesia Campus in collaboration with ExcelCare Hospitals Guwahati. The team from ExcelCare consisted of Dr. PK Das, two nurses, a medical executive and an assistant.



The aim of the programme was to extend the health services to the village communities around the University and also for the supporting staff of the University. The Health check-up activities included monitoring of Blood Pressure, Blood group, Height/Weight, random sugar and medical history. The check-up was held for 80 people including students, local men and women and also some faculty members. During the health check-up there were certain participants who required immediate medical attention and were referred to further diagnosis by the doctor. The programme was seen as a huge success for students and for the community people

### **World Animal Day 2019, 4 October 2019**

The Department of Zoology, in collaboration with the Eco Club, joined the thousands of other organizations and individuals around the globe in celebrating World Animal Day on 4th October, 2019. The Department is proud to support this global movement to raise the status of animals by using this special day to raise awareness about how our actions, as Homo sapiens, in one way or the other, affect the animal kingdom. The event is a global celebration for all animals and the people who love and respect them. The event started with an inspiring thought-sharing session by Liza Changkakoti, First Semester Student, at the morning Assembly. The talk revolved around the idea that today nature is in trouble

because of our actions, and how every tiny step taken by every individual can make a significant difference.

Two competitions were held for the day: Debate and Extempore Speech. The Debate competition sparked a vigorous discussion on “Scientific Collection as a barrier towards Conservation” among the debaters. The participants at the Extempore Speech competition displayed immense enthusiasm in relaying their thoughts on topics given to them. The afternoon session included a lively educational open quiz competition, Brain Teaser, conducted by Mr. Nilutpal Mahanta, Research Scholar, Gauhati University. An engaging documentary titled “The Race to Save The Amur Falcon” was screened towards the end of the programme.

### **Awareness Programme: e-Waste Management, 18 February 2020**

With the aim of sensitising faculty and students of the University on e-waste, Assam Don Bosco University, led by the Department of Zoology and the University’s EcoClub, hosted the Bulk Consumer Awareness Programme on “Co-creating Sustainable Solutions for e-Waste Management” on 18 February 2020. The programme is an initiative of Karo Sambhav, India’s leading Producer Responsibility Organisation. Ms. Pratyusha Baruah, a representative of Karo Sambhav, was the resource person.



In her interaction, Miss Baruah highlighted the status of India’s e-waste generation and the pressing need to manage the waste. Statistics of 2016 reveal that India is the fourth largest e-waste generating country in the world. Less than 2% of waste is responsibly recycled through formal channels in India. To tackle the problem, the Government of India released the E-waste (Management) rules in 2016 which lists down in detail the responsibilities of various stakeholders involved with electronic products from its manufacturing stage to its recycling stage and thereafter. Further, the speaker assured that Bulk consumers, such as Don Bosco University, can manage the e-waste through the Karo Sambhav organisation which will ensure environmentally sound management of e-waste. The session concluded with an interactive quiz and a word search competition that enlivened the environment among the audience. The University received a Certificate of Appreciation from the Organisation.



### **National Science Day, 28 February 2020**

The Department of Zoology and Eco Club, Assam Don Bosco University, joined hands to celebrate with the rest of the country on 28 February 2020 the National Science Day. The theme of this year’s celebration is “Women in Science”. The students of the Department celebrated the achievements of a few leading Indian women scientists with an enactment during the morning assembly. This was followed by the release of the Wall Magazine, Volume III: One Nature, One Future, by Fr. (Dr.) Stephen Mavely. Through the Magazine, the students intended to bring to light the role of Nature in our sustenance and establish how without our unified existence with Nature, no future was

possible. The students built a cogent case for their message and intent by constructing every bit of the wall magazine solely with waste material.

A lecture on “Silk as a non-textile biomaterial: A Thought on Science Day” was delivered by Professor Dipali Devi, Retired Professor, Institute of Advanced Study in Science and Technology (IASST), Guwahati. Professor Devi highlighted the need for further exploration in the world of Silkworms with a focus on their use as alternative food sources.

Events scheduled for the afternoon session included Photomania 3.0: Photomicrography & Macrophotography and an engaging Hands-on-Training on Aquarium making and Management by Dr. Yumnam Lokeshwor Singh. Out of a total of 32 photographs submitted, 6 were adjudged best. A hands-on-Training was an engaging session where 37 students attained theoretical knowledge and practical skills on aquarium making. Students were encouraged to consider it as a hobby which can also be an effort towards conservation.

## School of Technology

### Visit to Water Treatment Plant, 18 May 2019

Students of 6th semester of Civil Engineering Department paid a visit to the water treatment plant located at IIT Guwahati on 18th May 2019.



Students were demonstrated the functioning of the various components of a water treatment plant. The students got to know about the actual processes involved in water treatment. Various components of a treatment plant like the flocculator, aerator, sedimentation tank etc. were quite vividly explained by the faculty members of the department. The important and relevant test called the jar test was also discussed with the students. This visit was very informative. Students could practically see and learn

various stages in the water treatment plant.

### NSIIAAD 2019, 11-23 June 2019



The Department of Computer Science & Engineering and the Department of Computer Applications jointly is organizing a two-week National Level Workshop cum Summer Internship on IoT and Android Applications Development (NSIIAAD'19) from 11th June to 23rd June 2019 in collaboration with industry partners Orcheetech, Guwahati and Inquitechs, Guwahati,

The workshop aims to expose and acquaint the participants with state-of-the-art tools and technologies in MEAN Stack, Internet of Things (IoT), Android Applications Development and Introduction to Data Analytics using Python.

The workshop is coordinated by Mr. Syed Sazzad Ahmed, Asst. Professor, Department of Computer Science & Engineering and Mr. Rupesh Mandal, Asst. Professor, Department of Computer Science & Engineering. The resource persons are from the industry partners, NEHU, Shillong and experienced faculty members from the departments. The workshop is conducted in a full-time mode, involving lectures, practical sessions, demos and hands-on practices that will go on for over twelve days and consists of forty-three technical sessions including group project development competition.

## **Red Hat Linux & Python with Machine Learning, 11- 27 June 2019**



The Department of Computer Science & Engineering and the Department of Computer Applications jointly organized a 15 Day National Level Workshop cum Summer Internship on Red Hat Linux & Python with Machine Learning from 11- 27 June 2019 in collaboration with COSS Bangalore and Red Hat Academy.

The workshop aimed to make the participants capable of using Linux Administration (RHEL) and introduce them to Machine Learning using Python. The workshop was coordinated by Mr. Vijay Prasad, Asst. Professor, Department of Computer Applications and Mr. Alok Choudhury, Asst. Professor, Department of Computer Science & Engineering. The resource persons were from Red Hat Academy and a total of 50 participants registered for this workshop cum internship.

## **Student Induction Programme, 11- 31 July 2019**



Three-week mandatory Students Induction Program organized from 11th to 31st July, 2019 for the B.Tech first semester students at SoT, ADBU. During this period, they familiarized themselves to the new atmosphere of the campus of the institution of higher education in general and to the course of technical education in particular along with various activities ranging from physical exercise to mental activities such as meditation, communication test and practice and watching inspirational movies.

## **Inauguration of Academic Year 2019-20, School of Technology, ADBU, 25 July 2019**



The inauguration of academic year 2018-19 was held on 25th of July 2019 at the Azara campus of the university. Dr. Dhiraj Bora, Vice Chancellor of Assam Science and Technology University graced the function as the Chief Guest. Dr. Dhiraj Bora, Vice Chancellor, Assam Science and Technology University, in his address demonstrated about the New Education Policy and rose awareness about the environmental degradation. He expressed about the role of innovation, skill development and research in the growth of the country. Dr. Bora demonstrated about the National Research Fund of the government. He expressed that he is impressed by the employability activities undertaken by the Placement Cell and various clubs of Assam Don Bosco University. At this inaugural programme, the toppers of the various branches of study of last semester were felicitated, and also important guidelines were given to the students and parents.

### **Invited Talk on “Alumni and Entrepreneurship”, 9 August 2019**

An invited talk on “Alumni and Entrepreneurship” was held on 9th August 2019. The talk was delivered by Shri. Madhurjya Bora, Chief Technical Expert, OrcheeTech, Assam. The participants were the students of the Department of Computer Sc. and Engineering

### **Invited Talk on “Cyber Security”, 28 August 2019**

An invited talk on “Cyber Security” was held on 28th August 2019. The talk was delivered by Shri. Biraj Das, Superintendent of Police (Communication), Assam. The participants were the students of the Department of Computer Sc. and Engineering.

### **Lecture on “Reinforced Cement Concrete”, 4 September 2019**



On September 4th, 2019, Mr. Apurba Kumar Sarma, DGM-technical service (North-East India), Shyam Steel Manufacturing Limited, gave a lecture on reinforced cement concrete in practice. The students of 7th and 5th semester of Civil Engineering department attended the event.

### **Two Days Workshop on Basics of MATLAB, 20- 21 September 2019**

A two days' workshop on Basics of MATLAB was held during 20th and 21st September 2019 at Assam Don Bosco University, Azara. The workshop was initiated by the department of Electronics and Communication Engineering, School of Technology, Assam Don Bosco University and was coordinated jointly by Mr. Kaustubh Bhattacharyya and Dr. Jhimli K. Das. There were total of 36 participants and all have successfully attended and completed the workshop.

### **Workshop on Android App Development, 24 September 2019**



A workshop on Android Development was held on 24th Sept. 2019. The workshop was conducted to help the participants learn about the Android OS and basics of Android Application Development. It was conducted under the banner of Coding Club for the students pursuing B.Tech, MCA and BCA.

### **“SashaktMahila” Women Skills Enhancement Training for Rural Women, 30 September 2019 and 23 November 2019**



A one-day training programme on ‘Women Skills Enhancement’ has been conducted for two days on September 30, 2019 and on November 23, 2019 at Azara Campus and Tapesia Campus of Assam Don Bosco University by Women Empowerment Cell ‘VanitAgrata’, in association with Assam Investment Advisory Society (AIAS). This hands-on workshop was aimed at raising the soft-skills of the underprivileged rural women of Assam by imparting training on Housekeeping and Digital awareness skills. The key resource person Dr. Asha Bora, the founder of Aashaa Bora foundation, enlightened the events with her talk on the importance of housekeeping, and duties and responsibilities of housekeeping related activities as an area of skill development.

### **Workshop on CNC Machine and Robotics, 17-18 October 2019**



The Department of Mechanical Engineering, School of Technology, Assam Don Bosco University organized a two day work- shop on “CNC Machine and Robotics” on 17-18 October 2019 at Azara campus.

The workshop began with an introduction on the industrial applications and necessity of CNC Machine and Robotics by Prof. Manorajan Kalita, Director, School of Technology, fol- lowed by a lecture on ‘Introduction to

Robotics’ by the work- shop Coordinator and HoD of Mechanical Engineering De- partment, Ms Leena Nemade.

Lectures were also delivered by Pranjal Sarma and Harajit Das from the department of Mechanical Engineering on “History and Current trends in Robotics and 3D printing” and “ Basics of CNC Machine” respectively. These lectures were followed by a practical session conducted by Mechanical Engineering Department in CNC Lab.

On 18 October, lecture sessions were conducted by alumni of the Dept. of Mechanical Engineering Nayan Jyoti Kakati and Sidartha Bora on “Robotic Making” and “3D Printing”. The workshop ended with a Quiz Competition held for the participants.

## Workshop on Introduction to HTML, CSS and JavaScript, 22 October 2019



The Web Designing Club of Assam Don Bosco University organized a one-day workshop named “Introduction to HTML, CSS and Javascript” on 22nd October, 2019. The workshop was open to all departments and was free of cost. The objective of the workshop was to get the students to take their first step in web development and design, to familiarize them with the basics of making a simple web page.

## Prajyuktam - The Annual Technical Fest of School of Technology, 24 -26 October 2019



Prajyuktam- the annual technical fest of the School of Technology was held from 24th to 26th October, 2019. Students participated in various technical events of various clubs such as Robowar conducted by Robotics club, Make-a-Thon by the IoT & Cyber-security club, TechnoHunt by Circuitronix club, Constro De 'Fice by Nirmaan Club and so on.

## NERICT 2019- 24 -26 October 2019



North East Region Inter-College Tournament (NERICT) is an inter college tournament organized by the School of Technology, Assam Don Bosco University, Azara Campus. It is an initiative taken by the students and faculty members of SoT in the university in order to promote, discover and create a platform for the students studying in various universities/institutes in the entire North East

Region of India to showcase their skills in sport. This year NERICT was conducted from 24 to 26 October.

### **Session on 3-D Printing, 15 November 2019**



The Department of Mechanical engineering conducted an interactive session on "Knowhow3D" at Azara campus on 15 November 2019. Mr. Sidartha Barman from Knowhow3D delivered a lecture and showed how 3D printer works.

The 3D printing process builds a three-dimensional object from a computer-aided design (CAD) model, usually by successively adding material layer by layer, which is why it is also called additive manufacturing, unlike conventional machining, casting and

forging processes, where material is removed from a stock item (subtractive manufacturing) or poured into a mold and shaped by means of dies, presses and hammers. The term "3D printing" covers a variety of processes in which material is joined or solidified under computer control to create a three-dimensional object, with material being added together (such as liquid molecules or powder grains being fused together), typically layer by layer. The training program was coordinated by Mr. Pallav Gogoi, Assistant Professor from the Department of Mechanical Engineering.

### **FDP on STAAD PRO, 14 - 15 November 2019**



A 2-Day Faculty Development Programme was conducted by Department of Civil Engineering in association with Bentley Systems on 14th and 15th of November 2019. The resource person was Mr Sujoy Roy who came from Kolkata. He, an expert in Foundation testing, has been associated with Bentley Systems since the last 10 years. Faculties from Assam Down Town University, Scholars Institute of Science and Technology, Regional Institute of Science and Technology, GIMT Guwahati, GIMT Tezpur and Assam Don Bosco University attended the program.

### **Industrial Talk on Substation and its components, 7 December 2019**

The department of Electrical and Electronics Engineering of School of Technology, Assam Don Bosco University organized an interactive Industrial Talk by technical expert on "Substation and its components" on December 7, 2019 at its Azara campus. 28 students of B.Tech. along with the faculty members of the department attended the session. The talk was delivered by one of its

alumni, Mr. Himanshu Deori, Assistant Manager in the testing and commissioning division of Assam Power Distribution Co. Ltd. (APDCL).



### Social Commitment Programme – Swastyayan



The Assam Don Bosco University, apart from its state of the art teaching and training programs, envisages building strong and resilient communities where social justice and dignity of all prevails, by engaging in wide-ranging social commitment programs in the country. SWASTYAYAN... a commitment, is a social commitment project of Assam Don Bosco University. Activities undertaken during this programme include School visits, evening tutorial classes for high school students, and various other co-curricular activities.

### Social Commitment Programme – Swabalamban, 2-7 December 2020



The departments of CSE, CA, ECE, and EEE, organized “Swabalamban-2019” from 2nd to 7th December, 2019 at School of technology, Assam Don Bosco University Azara Campus. This programme aims at developing and enhancing the skills of the unemployed youth to increase their employability as well as to make them self-employable by providing free training in various trades of skill development. The training programme is organised in collaboration with Bosco 87 Development Society and Assam Railway Employees Cooperative Association Ltd.

## **Trainings on Royal Enfield, 29 July – Aug, 16-20 Sept and 11- 24 Dec 2019**



The Department of Mechanical Engineering, in collaboration with Royal Enfield had been conducting various training programmes at the Regional Training Center of Royal Enfield, located at the School of Technology, Assam Don Bosco University (ADBU) since its inception.

A two week Summer Training Programme was conducted for four students from Regional Institute of Science and Technology, Meghalaya from 29 July to August 2019. During the training, trainers from Royal Enfield gave them hands on training on different Royal Enfield motorcycles. At the end of the course, the successful candidates were given joint certification from Royal Enfield and ADBU.

A free technical familiarization course for the Mechanical Engineering 3rd semester students of the School of Technology was also conducted for a week during 16-20 September 2019. Both the training programmes were coordinated by Mr. Pranjal Sarma, Assistant Professor from the Department of Mechanical Engineering.

A 15 days winter Training Program was conducted in the Regional Training Center of Royal Enfield, at Azara campus of Assam Don Bosco University from 11th to 24th December, 2019. 6 students from Mechanical and EEE department of Assam Don Bosco University took part in the programme wherein they were given hands-on training on various Royal Enfield motorcycles

## **Gate Pre-Examination Training, 24 January 2020**



The Department of Electronics & Communication Engineering conducted a GATE Pre-Examination training from the month of August 2019 to January 2020 for the final year students of the department. Throughout the entire autumn semester, the students were provided with study materials on the various subjects required for GATE2020. On 24th January, 2020 a computer based examination of 2.5 hours duration on GATE pattern was conducted for all the final year ECE students. Finally, evaluation was done to test the level of preparation and also for giving them a platform of self-evaluation in order to enhance their preparation for the upcoming GATE exam accordingly.

## **Entrepreneurship Awareness Camp, 1- 3 February 2020**

A 3 day Entrepreneurship Awareness Camp was conducted at the Azara Campus on 31st January, 1st February and 3rd February, 2020 to give the students an insight and possible prospects on entrepreneurship for undertaking it in the future.

### **Workshop on Fuel Conservation, 14 February 2020**



Students of Department of Civil Engineering, Assam Don Bosco University attended a workshop on fuel conservation for engineering students on 14th of February 2020, organised in association with Indian Oil, PCRA, BPCL and Hindustan Petroleum where Mr. Ranjan K Baruah, a self styled social entrepreneur addressed the students of the department. Through this workshop the students got an insight on fuel conservation and the role of engineers in generating sustainable fuel to create a better world for the future generation.

### **Industrial Visit to Water Treatment Plant at IIT, Guwahati, 15 February 2020**



Students of the Department of Civil Engineering, ADBU, visited the Water Treatment Plant and other sites under construction at Indian Institute of Technology Guwahati under the abled guidance and supervision of the Head of the Department, Dr. Girija T R on 15 of February 2020.

### **Awareness Program on BS IV Technology, 15 February 2020**

An Awareness Program on BS IV Technology was conducted on Feb 15, 2020 by the Board of Research, Innovation and Technology in association with the department of Mechanical Engineering. The talk was delivered by Mr. Poonam Chowdhury, Deputy Manager, Ashok Leyland. Mr. Poonam Chowdhury gave lecture on implementation of BS IV in the vehicle along with the various norms for pollution board of India.

### **A Talk on the Theme “E-Waste”, 19 February 2020**



On 19 of February a talk on the theme “E-Waste” was held in the premises of the Azara Campus of Assam Don Bosco University. Ms. Pratyasha Barooah, Specialist EPR at Karo Sambhav graced the occasion and spoke to the gathering on what e-waste is and how the e-waste is causing hazards. India is the fourth largest producer of e-waste while only less than 2% of it is actually recycled. Over 95 % of e-wastes are handled using unscientific methods. 4-5 lakhs child labours between 10-15 years of age are engaged in e-waste management in informal sectors.

The talk was followed by an interactive session where Dr. Bikramjit Goswami, Fr. Joseph Nellanatt and Dr. Rupam Sharma asked different queries related to e-waste management. Ms. Barooah shared the various responsibilities of Assam Don Bosco University as a bulk consumer and for a normal person as consumers of electronic items.

### **3-Days Awareness and Skilling Programme on Plastic Technology, 28-29 February and 2 March 2020**



A 3- day Awareness and Skilling Programme on Plastic Technology for 4th and 6th semester Mechanical Engineering students arranged by Central Institute of Plastics Engineering & Technology (CIPET) Guwahati, on 28, 29 February and 2 March 2020.

### **International Women’s Day Celebration, 5 March 2020**

Special Morning Assembly held on 5 March 2020 to mark the celebration of International Women’s Day in the Azara Campus of Assam Don Bosco University. Speaking about the significance of this day, Dr. Nabamita Das, Assistant Professor, Department of Language Studies, said that International Women’s Day is celebrated annually on 8 March in order to honour Women’s rights in all spheres – political, social, economic as well as cultural. She mentioned in her talk that though the world has made advancements in many fields, no country has achieved gender equality in the true sense of the term.

## In focus: ADBU's Agenda for Sustainability

### The sustainability agenda of the University

Assam Don Bosco University's sustainability agenda is manifested in the vision of the University which defines the University's values in terms of all its stakeholders: students, parents, faculty and staff members, alumni, benefactors and governing body and is its roadmap for building and operating a healthy and self-renewing vibrant campus community. The sustainability agenda aligns the three campuses of the University around a holistic vision and envisages a system with clear cut goals and priorities in the areas of education, clean energy, nature and eco systems. The University encourages its faculty and staff to continue piloting sustainability solutions throughout the University by applying cutting edge research and teaching in the latest technology to tackle real issues of the region. With a foundation based on strong values and the deep commitment of its faculty and staff strength, the University is centered on an enriching learning and development environment for its students. Some of the initiatives and activities of the University are aligned to global sustainable development goals



## Updates on Placement Activities at ADBU

Assam 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. The following organizations visited the University Campuses

Company	Package (CTC) (in Lakhs)
CAPGEMINI	3.83
TATA CONSULTANCY SERVICES	3.43
AGS HEALTH	2.47
CHEGG INDIA	3
[24]7.AI	2.47
COGNIZANT TECHNOLOGY SOLUTIONS	4
CREDENCE RESOURCE MANAGEMENT	2.4
JUST DIAL	2.59
GODREJ	3.65
WIPRO - WILP	1.85
WIPRO	3.5
ACC CEMENT	3.5
BANDHAN BANK	3
HDFC AMC	2.5
IFFCO TOKIO	6.35
HDFC BANK	6
HDFCBANK	6
JUSTDIAL	4
IFFKO TOKIO	6.32
MAHINDRA FINANCE	5
SHRIRAM GENERAL INSURANCE	5
AXIS BANK	3.5
INDUSIND BANK	4.5
V MART	2.5
BYJU'S	4.5
ADBU-DSW	2
ASHA, AGARTALA	1.5
BAKDIL, TURA	2
CDI, MSMHC GUWAHATI	2.5
DISTRICT HOSPITAL	2.5
FLOOR COORDINATOR HAYAT HOSPITAL , GUWAHATI	2.0
GRASSROOTS , SHILLONG	3.5
LOK KALYAN SEVA KENDRA- DUMKA- JHARKHAND	3.5
MBMA LASKEIN BLOCK, JOWAI, JAINTHIA HILLS	3.2
MEGHALAYA BASIN DEVELOPMENT AUTHORITY EAST KHASI HILLS	3.5
SOCIETY FOR ALL ROUND DEVELOPMENT, NEW DELHI	1.5
NONGSTOIN SOCIAL SERVICE SOCIETY	1.5
PASTOR CROSLIN MARBANIANG, GOD'S DREAM HOME	2
SACRED HEART COLLEGE	1
SESTA, GOALPARA	2.5
SESTA, MAJHOULI	2.5
ST FRANCIS SCHOOL, NARENGI	2
ST. JOSEPH'S SCHOOL, JAIPUR	2
STATE REFERRAL HOSPITAL, ZORAM MEDICAL COLLEGE	2.5
TRIFED, GUWAHATI	2

# Research Activities of ADBU in 2019-2020

## Course Work 2019

The Course Work for the 2019 batch began on 25th March, 2019 with 70 (seventy) newly admitted Research Scholars. Of the 70 (seventy) Research Scholars, 43 (forty three) were from the School of Humanities and Social Sciences, and 27 (twenty seven) were from the School of Science and Technology. At the start of the Course Work a short Introductory Session was organized with Prof. Pawan Sharma and eminent Scientist from DBT, New Delhi as the keynote speaker. The pledge of the Doctoral Scholars on “integrity, pursuit and safety” was administered by the Registrar of Assam Don Bosco University, Dr. (Fr.) Biju Michael.

A week long intensive class on research methodology was conducted with resource persons from within the University, with Prof. K.C. Kapoor and Dr. Uzzal Sharma as the principal course teachers respectively for the School of Humanities and Social Sciences, and Science and Technology. On completion of the week long classes, the Research Scholars were put into contact with their respective departments for the Subject Specific activities and concerns. The Research Scholars were continuously monitored by their respective departments and by the principal teachers of the Course Work through numerous assignments. Since the completion of the intensive classes a Research Scholar was expected to submit 3 (three) assignments from the respective departments, 3 (three) other assignments for Research Methodology and other assignments - Quantitative Tools for Humanities and Social Sciences, Latex for Science and Technology, and Biostatistics for Biosciences. All these assignments were closely monitored and were subjected to evaluations.

In addition to the assignments, the Research Scholars were simultaneously engaged in review of literature under the supervision of their respective supervisor(s). A report of the Review of Literature was submitted through the guide by the Researcher which was subjected for evaluation. On completion of all the assignments and Review of Literature the Research Scholars were invited for classes, examination and Presentation of Review of Literature.

Following the Literature review, the Research Scholars were put to written examination as per the University regulation for Ph.D. Course Work requirements. The examinations conducted were on Subject specific and Research Methodology. The written examinations carried a weightage of 40% while the assignments carried 60% weightage.

Likewise, the Review of Literature with the report submitted through the research guide as an assignment while the student is off campus, but presentation of the Review of Literature in person while in campus. However, unlike the Subject Specific and Research Methodology papers, the Review of Literature distribution of mark was 50% weightage for the report of the Review of Literature and 50% weightage for the Presentation.

On completion of all the requirements and examinations, the Ph.D. Course Work Examination was declared on 01/11/2019. As per the regulation of the Assam Don University candidates securing 60% and above / CGPA of 6 and above out of 10 were declared successful. The pass percentage of the batch for 2019 Ph.D., Course work was 97.14%.

## Pre-Submission Seminars held for April 2019 – March 2020

Following students had successfully presented to the panel of the university their pre-submission seminar and submitted their draft thesis for evaluation by the external examiners.

1. Hoineichin Haokip – NEIS – Dr. Joshua Thomas
2. Kaustubh Bhattacharyya – ECE – Dr. Sunandan Baruah
3. Bikramjit Goswami – EEE – Dr. M. Kalita

4. Maushumi Lahon – CSE – Dr. Uzzal Sharma
5. Viraho Hibo – NEIS – Dr. Dominic Meyieho
6. Ashit Kumar Paul – NEIS – Dr. Dominic Meyieho
7. Purchila Jamir – Comparative Religion – Dr. Joseph Puthenpurakal
8. MC Rasmin – Mass Communication – Dr. W.A.D.P Wanigasundera
9. Medari Janai Tham – CSE – Dr. Pushpak Bhattacharyya
10. KJ Antony - Comparative Religion – Dr. Shaji Joseph Puykunnel
11. Joseph Mathew – Management – Dr. Anil Adsule
12. Kakoli Das Kalita – NEIS – Dr. B.K Das
13. Rose Mary Koch – Education – Dr. Ranjan Chakraborty
14. Aparup Sharma – Commerce and Management – Dr. Biju Mani Das

### The Viva Voce held during April 2019 - March 2020

SNO	Name	Title of Thesis	Discipline
1	Ashwini Kotrashetti	Development of intelligent radiating elements: A near field excitation approach'	Electrical and Electronics Engineering
2	Neli Lolia	Socio-cultural transition of the educated youth: A comparative study of the Mao and Maram Naga cultural communities of Manipur	North East India Studies
3	Ouseph Varghese Social Work	Self-help groups, micro credit and empowerment of women: The case of the tribal women in Tamenglong district of Manipur	Social Work
4	Krishna Kumar Thakur	An analytical study on consumers' decision making regarding the online purchase of air tickets with special reference to Assam	Management
5	Bimla Jaishy	A study of certain important physical properties of liquid Helium-3 and other related aspects of interacting Fermions	Physics
6	Hoineichin Haokip	Child labour in unorganized sector: A case study on Manipur	North East India Studies
7	Jayashree Katti	Development of Boolean XOR system solver	Computer Science and Engineering

### Research Projects

Name of the Scheme/Project/Endowments/ Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government /Non-Government)	Department	Year of Award	Funds provided (INR in lakhs)	Duration of the project
Aromatic and medicinal plants project by ICAR	Prof. J. N. Vishwakarma	ICAR	Government	Chemistry	2015 (2015-16)	25.3	Three years
Strategy development for the applications of biofertilizers into the soil to increase the soil fertility: An efficient way to substitute the	Dr. Prosun Tribedi	Department of Science & Technology (DST), Govt. of	Government	Life Science	2015 (2015-16)	23.2	Three years

hazardous chemical fertiliser application		India					
SERB-DST Startup young Scientist Fellowship	Dr. Yumnam Lokeshw or Singh	DST-SERB	Government	Zoology	2016 (2015-16)	39.85	Three years
Strengthening and Expanding Interventions for Persons with Mental Disorders in the North-East Region – Phase III by Ashadeep, India.	Dr. Riju Sharma	Ashadeep , Guwahati, India.	Non-Government	Social Work	2016 (2015-16)	2.9	One year
Synthesis and anti-parasitic activities of quinoline-tetradropyrimidine hybrids with special reference to anti-malarial, anti-leishmanial and anti-filarial activities. Under DBT's Twinning Programmes for the NE.	Prof. J. N. Vishwakarma	DBT	Government	Chemistry	2016 (2016-17)	88.89	Three years
Isolation and characterization of soil microorganism(s) capable of degrading poly ethylene (PE) and exploration of the underlying mechanism of PE degradation by isolated microorganism(s) capable of degrading poly ethylene (PE) and exploration of the underlying mechanism of PE degradation by isolated microorganism(s)	Dr. Samrat Dey and Dr. Sunandan Barua	ASTECC	Government	ECE	2016 (2016-17)	3.25	One Year
BIRAC BIG Grant (Proposal number BIRAC/VENTURE0181 /BIG09/16 by BIRAC under BIG round 09)	Dr. Supriyo Sen	Biotechnology Industry Research Assistance Council, Govt. of India	Government	Biosciences	2017 (2016-17)	48.75	18 months
Environmental Pollution Sensing and Remediation using	Prof. Sunandan Baruah	ASTECC	Government	ECE	2017 (2016-17)	5.99	Two years

Green nanotechnology							
An Attempt to enhance the propagation of Agarwood for its sustainability through novel approaches and to promote entrepreneurship in Assam	Dr. Shiny C. Thomas	ASTE C	Government	Biosciences	2017 (2017-18)	2	Three years
Studies on nitriding of tungsten under ITER Divertor like plasmas	Dr. Monmoyuri Baruah	Board of Research in Nuclear Sciences (BRNS)	Government	Physics	2017 (2017-18)	16.68	Two years
Blood Buddy-blood donation App	Nupur Choudhury	ASTE C-DST	Government	CSE	2017	0.1	One year
Online repairing facilitation system	Abhiit Matak and Dr. Rashmita Barua	ASTE C	Government	Commerce and Management	(2017-18)		
Elephant conservation in Assam using Smart Border System	Dr. Bobby Sharma	WCT-Small grant	Non-Government	CSE	2018 (2017-18)	3.94	One year
Automated Vetical Farming	Dr. Uzzal Sharma	ASTE C	Government	CSE	2018 (2017-18)	0.1	One Year
Smart border security system	Dr. Bobby Sharma	ASTE C-DST	Government	CSE	2018 (2017-18)	0.1	One year
Design & centralized air pollution detection & monitoring system	Karen Das	ASTE C	Government	ECE	2018 (2017-18)	0.1	One year
IOT Based home security Automated System	Dipjyoti Sarma	ASTE C	Government	ECE	2018 (2017-18)	0.1	One year
Study of water bodies for their impact on the fish fauna using sensing	Dr. Bipul Das	ASTE C	Government	ECE	2018 (2017-18)	0.1	One year
Coupled regenerative braking & suspension system	Pranjal Sarma	ASTE C	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Manually powered mechanised cultivation	Abhishek Sarmah, Co-guide-Pranjal Sarma	ASTE C	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Design & Fabrication of a green tea dryer	Pallav Gogoi	ASTE C	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Design and development of an intelligent braking system	Kamaldeep Kalita	ASTE C	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year

Disposable plate Making machine	Leena Nemade	ASTECC	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Design & Development of manually operated staircase climbing wheel chair	Tapash Jyoti Kalita	ASTECC	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Multipurpose Machine Tool	Harajit Das	ASTECC	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Design & Development of mixed mode dryer for herbs & spices	Dr. Bipul Das	ASTECC	Government	Mechanical Engg.	2018 (2017-18)	0.1	One year
Conceptualization, Design & Development of a pedal propelled vehicle to collect and dispose of household solid waste in municipal areas considering ergonomic & usability factors (ASTECC Technology Generation Scheme)	PI- Dr. Vikramjit Kakati, Co-PI- Sidharth Borkatak y	ASTECC	Government	Mechanical Engg.	2018 (2017-18)	2.28	Two years
Performance studies of water hyacinth ash as construction material and in water treatment	Girija T.R.	ASTECC	Government	Civil Engineering	2018 (2017-18)	0.067	6 months
TGS	Dr. Uzzal Sharma	ASTECC	Government	CSE	2018	1.44	Two years
Effect of sawdust on properties of soil	Mukul Kalita	ASTECC	Government	Civil Engineering	2018	0.1	6 months
Effect of sawdust on properties of soil	Mukul Kalita	ASTECC	Government	Civil Engineering	2018	0.1	6 months
Isolation and identification of bacterial species forming biofilm from caves of Meghalaya	Dr. Shiny C Thomas	ASTECC	Government	Biosciences	2019 (2018-19)	0.1	6 Months
Design& Development ofa Rice Transplanting Machine	Pallav Gogoi	ASTECC	Government	Mechanical Engg.	2019 (2018-19)	0.1	One year
Design& Fabrication of water body garbage collecting vehicle	Tapash Jyoti Kalita	ASTECC	Government	Mechanical Engg.	2019 (2018-19)	0.1	One year
Design and Fabrication of a semi-automatic dish washer machine	Harajit Das	ASTECC	Government	Mechanical Engg.	2019 (2018-19)	0.1	One year
a comparative study and ASSESSMENT of mental health of persons working in different organization using various human body parameters	Hemashree Bordoloi	AICTE	Government	ECE	2019 (2018-19)	3.5	Three years

Development of a portable system for recognition & authentication of Indian currency	Subra Mukherjee and M. Gogoi	ASTEC	Government	ECE	2019 (2018-19)	0.1	6 months
Study on the effect of process parameters on the production of value added construction products from waste plastic	Girija T.R.	ASTEC	Government	Civil Engineering	2019 (2018-19)	0.098	6 months
Prevalence of native Wolbachia in aedes albopictus & its stability at different temperature from Assam, North east, India	Dr.Monika Soni	ASTEC	Government	Biosciences	2019 (2018-19)	0.1	6 months
Evaluation of some of the non-edible seeds of northeast india for its biodiesel producing potential	Dr. Jayanti Datta Roy	ASTEC	Government	Biosciences	2019 (2018-19)	0.1	6 months
Venture Centre, Pune, SEED investment into Ouija Biosolutions Pvt Ltd	Dr Supriyo Sen (Cofounder)	Venture Center Pune	Government	Biosciences	2019 (2018-19)	30	18 months
DST SERB Core Research Grant	Dr Supriyo Sen (PI); Dr Shiny C Thomas (CoPI)	DST-SERB GOI	Government	Biotechnology	2019 (2018-19)	28.33	Three years
Small Business Innovation Research Initiative (SBIRI)	Dr Supriyo Sen (PI)	BIRAC, GOI	Government	Biotechnology	2019 (2018-19)	22.7	One year and six months
An Investigation on IoT Intrusion Detection System in Wireless Environment	Dr. Bobby Sharma	AIRTF-DST	Government	CSE	2019 (2018-19)		6 months
Multiple signal aggregator router	Dr. Bobby Sharma	ASTEC-DST	Government	CSE	2019 (2018-19)	0.1	One year
Unleavened bread making machine for making wrap for Momo	Vikramjit Kakati	ASTEC	Government	Mechanical Engg.	2019 (2018-2019)	0.1	One year
Fabrication of Sensors to detect Hazardous Air Pollutants for Smart Cities	Prof. Sunandan Baruah (Prof S. Baruah, was Co-PI, So no certificate as such)	MHRD	Government	ECE	2019 (2019-20)	3	One year

Fabrication of Biosensors to detect different types of bacteria in water	Prof. Sunandan Baruah (Prof S. Baruah, was Co-PI, So no certificate as such)	MHRD	Government	ECE	2019 (2019-20)	3	One year
DST Start up grant	Dr. Himadri Kalita	DST-SERB	Government	Zoology	2019 (2019-20)	25.4	Two years
Soil Moisture monitoring using ground based microwave scatterometer for flood and agricultural application	Dr. Bikramjit Goaswami	AICTE	Government	EEE	2019 (2019-2020)	10.05	Three years
PRISM	Rupam Sharma	DSIR	Government	Computer Applications	2019	2	One year
Development of IOT and Android Based Location Aided Flash Flood monitoring System for Anil Nagar area of Guwahati city	Rupesh Mandal	NESAC, Govt. of India	Government	CSE	2019	4.71	One year
IoT based complete health Assistant for the mother and the child	Nupur Choudhury	DST-SYST	Government	CSE	2019	40.75	Three years
Using Mycelium as a Building material in India	Gitartha Kalita	ASTEC	Government	Civil Engineering	2019	0.1	6 months
Design & simulation of a novel algorithm for real time detection of electricity theft in smart grids	Gitu Das	ASTEC	Government	EEE	2019	0.1	One year
Internet based remote controlled device for home appliances	Student: Rishav Saha Choudhury; Guide: Bikramjit Goswami	ASTEC	Government	EEE	2019	0.1	One year
Identification of optimal path through Network reconfiguration in power system	Student: Jerry meo PL Nongkynrih; Guide: Pushpanjalee Konwar	ASTEC	Government	EEE	2019	0.1	One year
Prevalence and antibiotic susceptibility of isolates for leukorrhoea among females under the age	Dr. Monika Soni	ASTEC	Government	Biosciences	2020 (2019-20)	0.1	6 months

group 15-25 years from Sonapur district of Assam							
Documentation, Preservation and Promotion of Bodo Kherai Dance through Video Documentary and Literature Script	Monjib Mochahar i	Ministry of Culture, Govt. of India	Government	Mass Communication	2020 (2019-20)	2.5	One year
Design and fabrication of Scotch Yoke Floor Scrubber	Pallav Gogoi	ASTEC	Government	Mechanical Engg.	2020 (2019-20)	0.1	One year
FARM-E-KRITI (An IOT based project on agriculture)	Smriti Priya Medhi	ASTEC	Government	CSE	2020 (2019-20)	0.1	One year
Pedestrian Detection for Driverless Car Using Python	Dr. Kaustubh Bhattacharyya	ASTEC	Government	ECE	2020 (2019-20)	0.1	One Year
IoT Based Health Monitoring System	Dr. Kaustubh Bhattacharyya	ASTEC	Government	Physics	2020 (2019-20)	0.1	One Year
In vivo antihyperlipidemic property of thyronorm	Dr. Himadri Kalita	ASTEC	Government	Zoology	2020 (2019-20)	0.1	One year
Nutritional profile of broiler chicken and processed meat	Dr. Himadri Kalita	ASTEC	Government	Zoology	2020 (2019-20)	0.1	One year
Extraction and isolation of Polyphenols from Dillenia scabrella by conventional extraction method and their antimicrobial activity	Dr. Shiny C Thomas	ASTEC	Government	Biosciences	2020(2019-20)	0.1	6 months

## Research Publications

1. Akachi Momin, Supran Chakravarty, Ingti Chutia (2018) "Application of Ferrocement in Construction Engineering :A Review", ICID 2018, Jorhat Engineering College, paper ID ICID2018\_D\_028, pp 298-302
2. Dinesh Kumar Mallik, Jesif Ahmed (2018), "Analysis of Self Excited Induction Generator for Standalone Micro-Hydro Scheme", ADBU Journal of Electrical and Electronics Engineering (AJEEE), Vol. 2, Issue 2, September 2018, pp. 22-31.
3. Dipu Sarkar, Pushpanjalee Konwar, Abhinandan Dey, Sanjay Goswami (2018), A graph theory application for fast and efficient search of optimal and radicalized distribution network topology, journal of King Saud university-engineering sciences, Elsevier, vol 31, issue 2
4. Gitartha Kalita and Pranjal Sarma (2019), 'Study on Sustainable Design against Rocking', 2nd National Conference in Recent Advances in Science and Technology, May 15-17, 2019, ASTU.

5. Gitartha Kalita(2019) MSME Competitiveness Building, published in Technical Volume published by IEI on World Water Day (22 March 2019)
6. Gitartha Kalita & Pranjal Sharma (2019);"Study on sustainable Design against Rocking".NCRAS 2019
7. Himadri Kalita, Ankita Hazarika, Raghuram Kandimalla, Sanjeeb Kalita (2018) "Development of Banana (Musa balbisiana) pseudo stem fiber as a surgical bio-tool to avert postoperative wound infections". Vol. 8/2018/36791-36801, 2046-2069. Publisher-Royal Society of Chemistry
8. Johnny Champramary, Sourav Gogoi, Debasish Kerketta, Chigam D Shira, Manoj Naidu, Pranjal Sarma (2019), "Chapter 8: Design & Conceptualization of a Coupled Regenerative Braking & Suspension System", Advances in Science and Technology (Vol 1), pp. 37-41, 2019, ISBN 978-81-908910-9-7
9. Kaustubh Bhattacharyya, Rima Deka, Sunandan Baruah (2019) "Automatic Target Recognition in RADAR at Terahertz Frequencies Using RNN and ANFIS: A Comparative Study". International Journal of Modern Electronics and Communication Engineering (IJMECE), Vol- ume No.-7, Issue No.-2, PP. 39-44.
10. Karen Das and Sunandan Baruah (2018) "Quantum Dots for Solar Energy Harvesting: A Review". Current Science, 115(4)(2018) 659- 668, indexed by Web of Science, Current Contents,
11. Geobase, Chemical Abstracts, IndMed and Scopus.
12. Lari Kupa Lyngdoh , Jesif Ahmed (2018), Study of Power Flow Control Using FACTS Devices", ADBU Journal of Engineering Technology (AJET), Vol. 7, Issue 1, June-July 2018.
13. R. Borgohain, R. Das, B. Mondal, V. Yordsri, C. Thanachayanont and S. Baruah (2018) "ZnO/ZnS Core-Shell Nanostructures for Low- Concentration NO<sub>2</sub> Sensing at Room Temperature". IEEE Sensors Journal, 18(17) (2018) 7203 – 7208.
14. Mriganka Gogoi, Pushpanjalee Konwar, Jesif Ahmed, Biswajit Sengupta (2018) "A review on Distribution Network Reconfiguration". AJET, 7/2008/1-7.
15. Ingti Chutia,Girija.T.R(2019); Review on potential of agricultural by products in water treatment with special emphasis on heavy metal removal; IWASCID 2019
16. Mebanteilang Syiemlieh, Edmund Banteibok Dkhar, Sylvanus Khonglein, Jerrybert Khongsit and Pranjal Sarma(2019), 'Fabrication of a reciprocating platform based segregator', Poster Presented at Research Conclave'19, IIT Guwahati, 14-17 March, 2019
17. Mukul Kalita,Dr U.K Nath,Dr .P.J.Hazarika(2019); "Effect of pile spacing and Raft Thickness on Behavior of Pile Raft Foundation-A para- metric study using FEM". CoAST 2019; 3rd February
18. Mukul Kalita,Dr U.K Nath,Animesh Bhuyan;(2019);"Parametric study of hill slopes vulnerable to landslides In Guwahati city of Assam"; CESDOC 2018 ; 18th -19th December 2018
19. Neel Harit Kaushik and Dilwar Hussain (2018) "Integrating Nurtured Heart approach with Self-Determination theory: A proposed Inter- vention model for managing disruptive behaviours of children" published in the Journal of Child Care in Practice on 5th October 2018.
20. Nilakshi Devi, Shakuntala Laskar(2018) "A Review on Application of Biosensors for Cancer Detection" ADBU Journal of Electrical and Electronics Engineering (AJEEE), Vol. 2, Issue 2 (September 2018),pp.17-21
21. Papul Changmai, Sanjeev K Metya(2018) , Behaviour of solar cell in different shading condition and calculation of maximum power point at partial shading condition , Volume 7, Issue 2, December ADBU Journal of Engineering Technology (AJET),
22. Paris Basumatary, Sangeeta Das, Jatin Kalita, Dulur Brahma (2018) "New record of Cyrtarachne nagasakiensis Strand, 1918 (Araneae: Araneidae) from India" 17 (9), 463–465. ISSN 2050-9928 (Print) ISSN 2050-9936 (Online). 5th October, 2018 The journal of British Arachnological Society

23. Paris Basumatary, Debomay Chanda, Sangeeta Das, Jatin Kalita, Dulur Brahma, Tunu Basumatary, Brojo Kumar Basumatary (2019), "On a new species of Orb-weaving spider genus *Eriovixia* (Araneae: Araneidae) from India". (2019) 18 (1), 24–27. ISSN 2050-9928 (Print) ISSN 2050-9936 (Online) 2019 The Journal of British Arachnological Society.
24. Parinita Barua & Gitartha Kalita (2019); "An Assessment of Sick building Syndrome: A survey of hospitals in North Lakhimpur, Assam, India"; NCRAS 2019
25. Pranjal Sarma and Promod K. Patowari, 'Fabrication of Metallic Micromixers using WEDM and EDM for Application in Microfluidic Devices and Circuitries', *Micro and Nanosystems*, 2018, Vol. 10, No. 2, 136-146.
26. Pranjal Sarma, P. K. Patowari, "Chapter 1: Alternate Soft Lithographic Approaches for Microfluidic device Fabrication Using PCM and EDM based tools", *Advances in Science and Technology* (Vol 1), pp. 1-5, 2019, ISBN 978-81-908910-9-7
27. Pranjal Sarma, Raktim Ranjan Baruah, Jitul Rabha, Pratik Chakraborty, Ankush Barman, Reeshav Pushpanjalee Konwar, Jesif Ahmed, Biswajit Sengupta, Mriganka Gogoi (2018), "A Review on Distribution Network Reconfiguration", *ADBU Journal of Engineering Technology (AJET)*, Vol. 7, Issue 1, June-July 2018
28. Pulakesh Kumar Kalita, Satyajit Bhuyan, Jesif Ahmed (2018) "FACTS controllers' impact on Power Quality: A comparative analysis", *ADBU Journal of Electrical and Electronics Engineering (AJEEE)*, Vol. 2, Issue 2, September 2018, pp. 1-8.
29. Raj Barman (2019) 'Design and fabrication of portable rice grain separator cum de-husker', 2nd National Conference in Recent Advances in Science and Technology, May 15-17, 2019, ASTU.
30. Raktim Ranjan Baruah, Pratik Chakraborty, Pranjal Sarma (2019), 'Portable Rice Grain Separator cum De-husker', Poster Presented at Research Conclave'19, IIT Guwahati, 14-17 March, 2019.
31. Subhrangshu Purkayasta (2019) "Analytical Solutions to the advection-diffusion equation in groundwater - A review"; Review paper published in Technical Volume published by IEI on World Water Day (22 March 2019)
32. Supran Chakravarty & Subhrangshu Purkayasta (2019) "Impact of Water Crisis: Need of Awareness and Empowerment"; Review paper published in Technical Volume published by IEI on World Water Day (22 March 2019) - "Impact of Water Crisis: Need of Awareness and Empowerment"
33. Supran Chakravarty & Subhrangshu Purkayasta (2019); "Impact of Water Crisis: Need of Awareness and Empowerment"; Review paper published in Technical Volume published by IEI on World Water Day (22 March 2019)
34. Sutanuka Nath, Dr Atanu Kumar Dutta (2019); "Fluid Structure Interaction Problem in Elevated Water Tank"; *Proceedings CoAST 2019*
35. Sutanuka Nath, Dr Atanu Kumar Dutta (2019); "Study on Fluid Structure Interaction in Elevated Water Tank"; *INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT*;
36. Sutanuka Nath, Dr Atanu Kumar Dutta (2019); Influence of Soil Structure Interaction in Elevated Water Tank; IGC, 2018. IISC Bangalore.
37. Sutanuka Nath, Dr Atanu Kumar Dutta (2019); "Challenges of 3D Modelling of The Water Tank using SAP 2000: A Case Study"; *CESSDOC*, 2018. AEC Guwahati. 18/12/2018
38. Mukul Kalita
39. Sangeeta Das, Jatin Kalita, Nilutpal Mahanta (2019), "New Report of *Phrynarachne ceylonica* (O. Pickard-Cambridge, 1884) (Araneae: Thomisidae) from Assam, India" *International Journal of Scientific Research and Reviews* Vol. 8 Issue 2, ISSN: 2279-0543.
40. Sivarangan Goswami, Kumaresh Sarmah, Angana Sarma, Kandarpa Kumar Sarma, Sunandan Baruah (2019) "Design Considerations Pertaining to the Application of Complementary Split Ring Resonators in Microstrip Antennas". *Emerging Innovations in Microwave and Antenna Engineering* (Book), IGI Global.

41. Subra Mukherjee, Shakuntala Laskar (2019) "Vis-NIR-based optical Sensor System for estimation of primary nutrients in soil". Journal of Optics, Springer.
42. Subra Mukherjee, Shakuntala Laskar(2018) Cross-Sensitivity and Responsive Wavelength Evaluation for NPK Sensing in the UV-VIS-NIR Region". National Conference on Emerging Trends and Application in Computer Science (NCETACS).
43. Sunandan Baruah, Joydeep Dutta, Gabor L Hornyak (2018) "Poor Man's Nanotechnology—From the Bottom Up (Thailand)". Nanotechnology and Global Sustainability (Book), CRC Press.
44. Wesheu Mero, Subra Mukherjee (2019) "A simple Vis- NIR LED-Based Model for estimation of Plant Chlorophyll". Lecture notes in Electrical Engineering, Springer Verlag.
45. Wesheu Mero, Subra Mukherjee (2018) "A Simple optical sensor based system for monitoring plant health status". In Procc. of 4th National Conference on Emerging trends and Applications in Computer Science.

## University at a Glance: Statistics

Journal title	Editors
Journal of Northeast Indian Cultures	Dr. Dominic Meyieho Assistant Professor, Department of Education
ADBU Journal of Engineering	Prof. Shakuntala Laskar Professor, Department of Electrical and Electronics Engineering
The Journal of Development Practice	Dr. Jacob Islary Assistant Professor, Department of Social Work
Journal of Applied and Fundamental Sciences	Dr. Samrat Dey Assistant Professor, Department of Physics
Journal of Management in Practice	Mr. Chandan Dutta Assistant Professor, Department of Management
ADBU Journal of Electrical and Electronics Engineering	Mr. Jesif Ahmed and Mr. Bikramjit Goswami Assistant Professors, Department of Electrical and Electronics Engineering

### Doctoral Students

S. No	Department	M	F	Total	Degree awarded
1.	Electronics and Communication Engineering	5	7	12	1
2.	Electrical and Electronics Engineering	4	6	10	1
3.	Computer Science and Engineering and Information Technology	20	7	27	1
4.	Mechanical Engineering	2	0	2	0
5.	Civil Engineering	6	1	7	0
6.	Management	29	7	36	3
7.	Social Work	20	13	33	1
8.	Psychology and Counselling	4	12	16	0
9.	Mass Communication	7	5	12	1
10.	Education	12	12	24	1
11.	Physics	13	6	19	1
12.	Biotechnology	7	16	23	1
13.	Biochemistry	3	1	4	0
14.	Microbiology	2	5	7	0
15.	Commerce	2	4	6	0
16.	Chemical Sciences	2	3	5	0
17.	Economics	2	2	4	0
18.	Mathematics	4	3	7	0
19.	Language Studies	4	13	17	0
20.	North East India Studies	14	14	28	1
21.	Comparative Religion	8	3	11	0
22.	Philosophy	2	1	3	0
23.	Zoology	1	3	4	0
<b>TOTAL</b>		<b>173</b>	<b>144</b>	<b>317</b>	<b>12</b>

## PROGRAMMES OF STUDY

There are currently 19 graduate programmes, 19 post-graduate programmes, and 24 doctoral programmes in the university. The details are given in the chart 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 - Mechanical Engineering
3	Bachelor of Technology	BTECH - Computer Science and Engineering
4	Bachelor of Technology	BTECH - Electrical and Electronics Engineering
5	Bachelor of Technology	BTECH - Electronics and Communication Engineering
6	Bachelor of Computer Applications	BCA - Computer Applications
<b>School of Commerce and Management</b>		
7	Bachelor of Commerce	BCOM
8	Bachelor of Arts	BA (Honours) - Economics
9	Bachelor of Business Administration	BBA
<b>School of Humanities and Social Sciences</b>		
10	Bachelor of Arts	BA - Philosophy
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
<b>School of Fundamental and Applied Sciences</b>		
15	Bachelor of Science	BSC (Honours) - Physics
16	Bachelor of Science	BSC (Honours) - Chemistry
17	Bachelor of Science	BSC (Honours) - Mathematics
<b>School of Life Sciences</b>		
18	Bachelor of Science	BSC (Honours) - Botany
19	Bachelor of Science	BSC (Honours) - Zoology
<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 Computer Applications	MCA - Computer Applications
<b>School of Commerce and Management</b>		
5	Master of Business Administration	MBA - Business Administration
6	Master of Commerce	MCOM
<b>School of Humanities and Social Sciences</b>		
7	Master of Social Work	MSW - Social Work
8	Master of Arts	MA Education (Educational Leadership)

9	Master of Science	MSC Psychology (Psychological Counselling)
10	Master of Arts	MA English
11	Master of Arts	MA Mass Communication
<b>School of Fundamental and Applied Sciences</b>		
12	Master of Science	Physics
13	Master of Science	Chemistry
14	Master of Science	Mathematics
<b>School of Life Sciences</b>		
15	Master of Science	Biochemistry
16	Master of Science	Biotechnology
17	Master of Science	Microbiology
18	Master of Science	Botany
19	Master of Science	Zoology
<b>Doctoral Programmes</b>		
<b>School of Technology</b>		
1	Doctoral Programme	PHD - Computer Science
2	Doctoral Programme	PHD - Civil Engineering
3	Doctoral Programme	PHD - Electrical and Electronics Engineering
4	Doctoral Programme	PHD - Electronics and Communications Engineering
5	Doctoral Programme	PHD - Mechanical Engineering
6	Doctoral Programme	PHD - Computer Applications
<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 - Zoology

## STUDENT DISTRIBUTION

### On Campus

Sl. N	Department	Bachelor's Programmes			Master's Programmes			Doctoral Programme			Total
		M	F	Tot	M	F	Tot	M	F	Tot	
1	Electronics and Communication Engineering	33	8	41	2	0	2	5	7	12	55
2	Electrical and Electronics Engineering	55	20	75	2	5	7	4	6	10	92
3	Computer Science and Engineering	151	45	196	5	3	8	20	7	27	231
4	Mechanical Engineering	99	3	102	0	0	0	2	0	2	104
5	Civil Engineering	172	88	260	5	6	11	6	1	7	278
6	Computer Applications	120	31	151	71	38	109	0	0	0	260
7	Management	23	8	31	45	33	78	29	7	36	145
8	Commerce	95	55	150	31	49	80	2	4	6	236
9	Economics	16	8	24	0	0	0	2	2	4	28
10	Social Work	0	0	0	51	127	178	20	13	33	211
11	Psychology and Counselling	31	13	166	9	42	51	4	12	16	233
12	Mass Communication	29	31	60	0	0	0	7	5	12	72
13	Education	16	20	36	4	17	21	12	12	24	81
14	Language Studies	65	11	180	19	55	74	4	13	17	271
15	North East India Studies	0	0	0	0	0	0	14	14	28	28
16	Comparative Religion	0	0	0	0	0	0	8	3	11	11
17	Philosophy	44	7	51	0	0	0	2	1	3	54
18	Physics	8	3	11	31	40	71	13	6	19	101
19	Chemistry	5	12	17	31	50	81	2	3	5	103
20	Mathematics	10	4	14	24	29	53	4	3	7	74
21	Bio Science	0	0	0	25	60	85	12	22	34	119
22	Botany	8	6	14	12	27	39	0	0	0	53
23	Zoology	6	10	16	23	77	100	1	3	4	120
	<b>TOTAL</b>	<b>986</b>	<b>609</b>	<b>1595</b>	<b>390</b>	<b>658</b>	<b>1048</b>	<b>173</b>	<b>144</b>	<b>317</b>	<b>2960</b>

## GRADUATING STUDENTS

### Campus Programs

<b>PROGRAMMES</b>	<b>Degree</b>	<b>MALE</b>	<b>FEMALE</b>	<b>TOTAL</b>
Bachelor of Technology (Computer Science Engineering)	<b>BTECH</b>	36	12	48
Bachelor of Technology (Electrical and Electronics Engineering)	<b>BTECH</b>	20	8	28
Bachelor of Technology (Electronics and Communications Engineering,	<b>BTECH</b>	7	8	15
Bachelor of Technology (Civil Engineering)	<b>BTECH</b>	36	27	63
Bachelor of Technology (Mechanical Engineering)	<b>BTECH</b>	54	5	59
Bachelor of Computer Applications	<b>BCA</b>	21	7	28
Bachelor of Philosophy	<b>BA</b>	13	0	13
Bachelor of Commerce	<b>BCOM</b>	22	11	33
Master of Technology (Computer Science Engineering)	<b>MTECH</b>	1	5	6
Master of Technology (Electrical and Electronics Engineering)	<b>MTECH</b>	1	0	1
Master of Technology (Electronics and Communications Engineering)	<b>MTECH</b>	2	2	4
Master of Technology (Civil Engineering)	<b>MTECH</b>	5	6	11
Master of Business Administration	<b>MBA</b>	25	12	37
Master of Computer Applications	<b>MCA</b>	31	12	43
Master of Social Work	<b>MSW</b>	17	50	67
Master of Science in Psychology (Psychological Counselling)	<b>MSC</b>	5	16	21
Master of Arts in Education (Educational Leadership)	<b>MA</b>	3	9	12
Master of Science in Physics	<b>MSC</b>	5	9	14
Master of Science in Chemistry	<b>MSC</b>	10	22	32
Master of Science in Biotechnology	<b>MSC</b>	4	11	15
Master of Science in Biochemistry	<b>MSC</b>	0	2	2
Master of Science in Microbiology	<b>MSC</b>	4	11	15
Master of Science in Zoology	<b>MSC</b>	7	35	42
Doctor of Philosophy	<b>PhD</b>	5	7	12
<b>TOTAL</b>		<b>334</b>	<b>287</b>	<b>621</b>

## GOLD MEDALISTS

PROGRAMMES	STUDENT ID	NAME	CGPA
Bachelor of Technology (Computer Science Engineering)	DC2015BTE0277	Vidhi Bagadia	9.33
Bachelor of Technology (Electrical and Electronics Engineering)	DC2015BTE0249	Parveen Kaur	9.34
Bachelor of Technology (Electronics and Communications Engineering,	DC2015BTE0259	Rohan Kumar Boruah	8.53
Bachelor of Technology (Civil Engineering)	DC2015BTE0087	Raisa Tamsin Hussain	9.69
Bachelor of Technology (Mechanical Engineering)	DC2015BTE0273	Shankar Khatiwada	9.07
Bachelor of Computer Applications	DC2016ICA0030	Th Bikash Singh	9.02
Bachelor of Philosophy	DU2016BAS0012	P. Sundar Selvan	9.00
Bachelor of Commerce			
Master of Technology (Computer Science Engineering)	DC2017MTC0017	Veronica Naosekpam	8.40
Master of Technology (Civil Engineering)	DC2017MTC0013	Peruz Alam	9.32
Master of Business Administration	DI2017MBA0024	Micky Sohtun	8.69
Master of Computer Applications	DC2017MCA0029	Michael Richborn Syiemlieh	8.58
Master of Social Work	DU2017MSW0069	Tintumol Chacko	8.84
Master of Science in Psychology (Psychological Counselling)	DU2017MSC0012	Nchumbeni Y Jungio	8.68
Master of Arts in Education (Educational Leadership)	DU2017MAS0009	Kayaththan Jesurajan Mark	8.20
Master of Science in Physics	DC2017MSC0004	Pearlycia Kharbuli	8.04
Master of Science in Chemistry	DU2017MSC0129	Diksha Yadav	7.92
Master of Science in Biotechnology	DU2017MSC0105	Devarshi Bharadwaj	8.35
Master of Science in Microbiology	DU2017MSC0053	Saba Khatun	8.73
Master of Science in Zoology	DU2017MSC0095	Sanchari Bhattacharjee	8.77

Chancellor's Gold Medal for most significant contribution to campus life from among postgraduate students is awarded to **MANASH PRATIM RAJBONGSHI, Master of Science (Zoology)**

Vice Chancellor's Gold Medal for most significant contribution to campus life from among graduate students is awarded to **RAISA TAMSIN HUSSAIN, Bachelor of Technology (Civil Engineering)**

**TEACHING STAFF**

Faculty	Regular		Adjunct		Visiting	TOTAL
	Male	Female	Male	Female	Male	
Professor	18	1	27	3		49
Associate Professor	6	7	31	1	2	47
Assistant Professor	86	67	8	7		168
<b>Total</b>	<b>110</b>	<b>75</b>	<b>66</b>	<b>11</b>	<b>2</b>	<b>264</b>

**NON TEACHING STAFF**

NUMBER OF 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>Total</b>	<b>68</b>	<b>51</b>	<b>119</b>