



# Assam Don Bosco University

## Annual Report 2016-2017



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# VICE CHANCELLOR "S MESSAGE

2016 saw the University meet several significant milestones on its journey, prime among them being the inauguration of the Tapesia Campus. Some of the significant developments during the year are...

***In the field of academics***, the University launched three new programmes on campus: a bachelors in Philosophy, a bachelors in Commerce (a professional course leading to accreditation by ACCA), and a masters in Physics with specialization in High Energy Physics in collaboration with Plasma Physics Research Institute of the Government of India.

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

We have been regularly publishing the *five journals* that the University started in the earlier years:

*Journal of Northeast Indian Cultures, ADBU Journal of Engineering, The Journal of Development Practice, Journal of Applied and Fundamental Sciences, Journal of Management in Practice*

***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. 51.15% (89 out of 174) of the faculty have completed their doctorate, another 42 (24.14%) are actively pursuing their doctoral research in a variety of Indian and foreign universities. That is an enviable record for even-well established universities.

It is also significant that the number of Papers published in journals of repute comes to a healthy 1.6 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 248 research scholars, pursuing their doctoral studies across 19 disciplines – 12 of them have been awarded the Doctorate.

***In the area of infrastructure development***, we have crossed an immensely significant milestone by inaugurating the new academic session at Tapesia Gardens for five

Departments of the School of Social Sciences and three departments of the School of Life Sciences.

It is faith that has sustained us for so long; it is hope that has fueled our determined march towards Tapesia; it is the generosity of the many friends and collaborators that saw this dream take shape – friends who walked with us, shared our burdens, propped us up when our spirits sank, and rejoiced with us at every tiny step that took us forward... We remember them gratefully today. May God bless them!

The pride of place at Tapesia goes to the Academic Block with about 100,000 Sq. Ft of built up area and a Life Science Complex that will eventually evolve into the ‘Sophisticated Instrumentation Lab’ of the University. A Food Court, a laundry, 55 staff residences and two student Halls complete the infrastructure to house the first cluster at Tapesia, the second cluster in the University.

The campus at Tapesia is proving to be a gold mine for the University – apart from providing us with an enviable location for academic pursuits, it is slowly developing into a nerve centre for the development of the entire region around it, especially the 42 villages that surround the campus. The plantations, in the near future, will 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.

An MOU with NEEPCO (North East Electric Power Corporation) is in place to develop a 2 Megawatt solar farm to ensure self-sufficiency in energy for the University campus and to feed the surplus to the national grid. The work is in progress. Work has also started to produce 200 Kilowatts of electricity from rooftop solar installations at Tapesia, and 100 Kilowatts here at Azara.

***In the area of quality assurance***, we hold the unique distinction of being the youngest university to have been accredited by NAAC within 5 years of establishment. 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.

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As a preface to this Annual Report, it gives me great pleasure to share with you a few of the core strengths that we have given close attention to in these formative years of Don Bosco University to ensure that the University is set on solid foundations:

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. 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.
3. 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.
4. 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.
5. 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.
6. 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. Look around our campus, look into our classrooms and research labs, look into the camaraderie among our staff, students and faculty that cuts across all distinctions here at the campus... THAT is what we call Don Bosco's system of education!

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'Moments of Grace' is what the theme for the academic year 2016-2017 brought to the fore of our consciousness –

- moments that cannot be manipulated...
- moments that come to us most simply as a gift when we live in such a way as to be open to them...
- moments that offer us with choices and opportunities...

When we do not grasp them, they evaporate away in plain sight, and become tales of yesterday! Graced moments of opportunity!

Compiling this report too has provided us with one such opportunity – to stop, to reflect, and to marvel at the workings of grace in our lives and in the life of the University.

Fr (Dr) Stephen Mavelly

Vice Chancellor

# About Assam Don Bosco University

## Introduction

The Assam Don Bosco University is the first University in the English speaking world of the worldwide family of the renowned Don Bosco Society present across 132 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.*

## Schools

The Assam Don Bosco University started with four academic programmes of Engineering and Technology in 2008 and currently the University offers 8 undergraduate programmes, 16 postgraduate programmes and doctoral studies in 18 areas belonging to, the School of Technology, the School of Humanities and Social Sciences and the School of Commerce and Management. The School of Life Sciences (2015-2016), School of Applied Sciences (2016-2017) were started subsequently 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.

- Undergraduate and Post Graduate programmes are offered by:
  - School of Technology
  - School of Humanities and Social Sciences
  - School of Commerce and Management
- Post Graduate programmes are offered by:
  - School of Life Sciences
  - School of Applied Sciences

# Highlights of 2016-2017: A Diary of Events

## MoU with ACCA and ISDC 28th May 2016

The University on 28th May 2016 signed MoUs with Association of Chartered Certified Accountants (ACCA) and International Skill Development Corporation (ISDC) at Azara



Campus of the University. As per the terms of the MoU signed with ISDC, ISDC will support the University in developing the B.Com International Finance and Accounting (one of the specializations offered in B.Com Professional course under the University) course and in this regard organize training programmes for the teachers. ISDC will also support students who opt for B.Com International Finance and Accounting in getting internship and placements. According to the MoU signed with ACCA, the University agreed to create a

platform for students to achieve ACCA qualifications. Both the parties agreed to work together in conducting joint seminars, conferences, research projects. ACCA also agreed to conduct relevant train-the-trainer programmes for the faculty of the University. The University is introducing B.Com Professional Programme from the upcoming academic year with an aim to produce industry-ready business professionals.

## Vice Chancellor among „100 Most Influential Vice-Chancellors“ 23rd June 2016

The Vice Chancellor, Fr (Dr.) Stephen Mavelly has been awarded with the award for the ‘100 Most Influential Vice-Chancellors’ in Asia-Pacific



region by World Education Congress, held on 23rd June, 2016 at Taj Lands End, Mumbai. The 100 awardees spanned most of the countries of Asia and Africa. The award, instituted for Asia-Pacific and African countries, was based on criteria such as the importance given to strategic planning in the university, quality of infrastructure, future orientation, body of research, emphasis on sustainability, proven record of performance, personal integrity and ethical practices. The theme of World Education Congress this year was “Quality Education for Sustainable and Inclusive Growth”.

## Autumn Semester-Staff Induction Programme

5th July – 7th July 2016

An induction programme was conducted for the new faculty and staff members who joined the University. Induction is a formal welcoming process that is designed to make the new employees feel comfortable, informed about the University and be prepared for their position. New employee orientation is conducted by the Human Resources Director, and includes an overview of the history, an explanation of core values, vision, and mission; the Don Bosco Society's and University's goals and objectives. 12 Faculty Members and 4 Non-Teaching Staff Members were inducted.

## Professional Development Programme-“Collaborating and Building Trust...for effective Results”

22nd July – 23rd July 2016

The first Staff Development of this academic year focused on “Collaborating and Building Trust...for effective Results”. The programme was facilitated by Mr. Neville Lobo, who was previously the Global Head of Learning & Development, Larsen and Toubro and currently works as an independent Management Consultant.

This course was intended for individuals to explore various facets of collaboration, and in the process generate the trust that produces effective organizations. The objectives of the programme were

- Understanding the basics of team formation;
- Defining the meaning of trust;
- Developing lasting and purposeful trust agreements through participative decision making;
- Learning how to leverage differences in opinion to foster new ideas and perspectives;
- Strengthening and elevating creativity and innovation within the team;
- Developing creative leaders who want to make a difference.

The programme was attended by 83 Faculty Members and 12 Non-Teaching Staff Members.

## Fifth Convocation of the University

10th September 2016

On 10th September 2016, the University celebrated its Fifth Convocation at Azara Campus.



Shri Sarbananda Sonowal, the Honourable Chief Minister of Assam graced the occasion as the Chief Guest. Fr. VM Thomas, Chancellor of the University, Fr. (Dr) Stephen Mavelly, Vice Chancellor, Fr. Joseph Nellanatt, Pro Vice Chancellor, Dr. Basil Koikara, Registrar, Fr. (Dr) Francis Fernandez, Controller of Examinations, eminent guests from other Universities, parents, faculty and graduating students attended the convocation. After the

Convocation Ceremony was formally declared open by the Chancellor, Fr.(Dr) Stephen Mavely, the Vice Chancellor delivered a welcome address and also gave a report on the University.

### Workshop on Academic Audit – Principles and Practice 14th-15th October 2016

Higher Education Institutes (HEI) play a vital role in the development of any nation. To improve the quality of academics in our institutions of higher learning, scrutiny of current academic systems and processes are promoted both by the University Grants Commission and the National Assessment and Accreditation Council. A Workshop on Academic Audit – Principles and Practice was held at Azara Campus of Assam Don Bosco University, to address one of the important dimensions of scrutiny, namely, the principles and practices of academic audit. The workshop brought together experts from different universities in India to conduct theoretical and hands-on sessions on academic audit.

Following Sub-themes were discoursed.

- Academic Audit: principles and best practices
- Academic Audit: procedures and processes
- Academic Audit: tools for measurement of quality
- Academic Audit: effective documentation methods
- Academic Audit: its role in improving quality of education.

The workshop was attended by faculty members of Schools of Technology and Humanities and Social Sciences.

### Spring Semester-Staff Induction Programme 10th – 11th January 2017

The induction programme for Spring Semester was attended by 9 Faculty Members and 4 Non-Teaching Staff Members. The participants expressed their appreciation for the value of induction programme as the sessions helped them to get familiar with the ethos of the University and grasp a better understanding of the expectations of their respective roles.

### International Conference on Advances in Nanotechnology 9th-13th January 2017



The International Conference on Advances in Nanotechnology, iCAN 2017 jointly organized by School of Technology, Assam Don Bosco University and Sustainable Nanotechnology

Organization, USA began on 9th January, 2017. The main objective of the conference was to motivate young researchers from academic and research institutes in the north eastern part of India to explore the possibilities of using nanotechnology and to provide a platform to interact and exchange new ideas and also to explore possible collaborations with the researchers from across the globe working in diverse areas of Nano-science and Nanotechnology. Shri Himangshu Shekhar Das, Retired IAS officer & Hon'ble Chief Information commissioner, Assam; Mentor cum Advisor Shri C.K Das, Retired IAS officer and Hon'ble Member of North Eastern Council, Shillong; Rev. Fr. V.M Thomas, Chancellor, ADBU; Prof. Arun Chattopadhyaya, Dept. of Chemistry & Center for Nanotechnology, Indian Institute of Technology, Guwahati; Prof. Barbara Karn, co-Founder and Executive Director, SNO, USA; Prof. Manoranjan Kalita, Director, School of Technology, were the dignitaries present for the inaugural session. Prof. Barbara Karn, co-Founder and Executive Director, SNO, USA gave a brief introduction to SNO, at the inaugural session. She mentioned that the main aim of SNO is to promote sustainability in technologies and emphasized that any research should be performed in sustainable manner. The Hon'ble Prime Minister of India, Shri Narendra Modi Ji, as well as the Hon'ble Governor of Assam, His Excellency Shri Banwarilal Purohit expressed their keen interest in iCAN2017 and sent message to be read on their behalf in this occasion. During the various sessions of Conference, the keynote addresses were delivered by Prof. Siddhartha Sankar Mukhopadhyay, Sr. Pedologist (Retd), Department of soil science, Punjab Agricultural University, Ludhiana, Dr. Barbara Karn, Co-founder and executive director, SNO, USA; Prof. Achintya Bezbaruah, Associate Professor, Department of civil and environmental engineering, NDSU, USA; Dr. Dambarudhar Mohanta, Associate Professor, Dept. of Physics, Tezpur University; Prof. Tarasankar Pal, Professor, Department of Chemistry, Indian Institute of Technology, Kharagpur; Dr. Achintya N. Bezbaruah, Associate Professor, Department of Civil and Environmental Engineering, North Dakota State University (NDSU); USA Dr. Somabrata Acharya, Associate Professor, Centre for Advanced Materials (CAM), Indian Association for the Cultivation of Science, Kolkata; Prof. Pranayee Datta, Department of Electronics & Communication Technology, Gauhati University; Assam, Dr. Chanchana Thanachayanont, Senior Researcher, Microelectronics and Embedded Systems, MTEC, NSTDA, Thailand; Dr. Neelotpal Sen Sarma, Associate Professor, IASST, Guwahati, Assam; Dr. Munin N Baruah, Managing Director, North Eastern Cancer Hospital and Research Institute, Guwahati; Prof. Utpal Bora, Professor, Department of Biotechnology, IIT Guwahati and Prof. Samir Kumar Pal, Professor, Department of Chemical, Biological and Macromolecular Sciences, S.N. Bose National Centre of Basic Science.

Dr. Somabrata Acharya, Associate Professor, Centre for Advanced Materials (CAM), Indian Association for the Cultivation of Science, Kolkata; Dr. Subhra Jana, Inspire Faculty, Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Kolkata; Dr. Anjali Pal, Associate Professor, Department of Civil Engineering, Indian Institute of Technology, Kharagpur; Prof. Klaus Leifer, Professor, Department of Engineering Sciences, Applied Materials Science, Uppsala University, Sweden; Dr. S. R. Joshi, Associate Professor, Dept. of Biotechnology and Bio-informatics, North-Eastern Hill University, Shillong, Meghalaya; Prof. Tarasankar Pal, Professor, Department of Chemistry, Indian Institute of Technology, Kharagpur; Prof. Siddhartha Sankar Mukhopadhyay, Sr. Pedologist (Retd), Department of Soil Science, Punjab Agricultural University, Ludhiana Chaired the sessions spread over three days. Out of a total of 128 abstracts 80 were selected.

Speaking on the valedictory, the Vice chancellor of ADBU, Rev. Fr. Mavelly, mentioned about the three main mantras of the university — Interdisciplinary Research; Encourage Research climate right from the undergraduate level ; and promote research having social causes with a special emphasis on sustainability. Fr. Mavelly also congratulated the Department of Electronics and Communication for organizing iCAN 2017 in such a successful manner.

### **Brainstorming session at Borgos Resort, Kaziranga national Park**

A brainstorming session on how to increase awareness and encourage nanotechnology research in the North East India was conducted as a part of iCAN 2017 on the 12th of January 2017 at Borgos Resort, Kaziranga. The Brainstroming session which started at 5.30 pm was attended by senior academicians and intellectuals. Among those present were Prof. Manoranjan Kalita, Director, School of Technology, Assam Don Bosco University, Dr. Sunil Rai, VC, Kaziranga University, Prof. Barbara Karn, Executive Director, Sustainable Nanotechnology Organization, Prof. Klaus Leifer, Angstrom Laboratoriet, Uppsala University, Sweden, Dr. Achintya Bezbaruah, North Dakota State University, Prof. Utpal Bora, IIT Guwahati, Dr. Chanchana Thanachayanont, National Science & Technology Development Agency, Thailand, Dr. Gazi Ameen Ahmed, Tezpur University, Dr. Somobrata Acharya, IACS, Kolkata, Dr. Biplab Sarkar, ICAR Ranchi, Prof. Shankar Murthy, NITIE, Mumbai, Mr. Chirag Gupta, North East Space Application Center, Meghalaya, Dr. Prabin Boruah and Dr. Kandarpa Kumar Sarma from Gauhati University along with other participants and members of the organizing committee of iCAN 2017. The session was chaired by Prof. Manoranjan Kalita. All participants unanimously agreed to the setting up of a global consortium under the aegis of Assam Don Bosco University to encourage and support nanotechnology research in North East India.

### **Workshop on Open Source Software for Library Automation 23rd – 25th January 2017**

A workshop on Open Source Software for Library Automation was held at the School of Technology, Azara Campus on 23- 25 January 2017. The workshop was jointly organized by the University and DRTC, Indian Statistical Institute (ISI), Bangalore and was sponsored by ISI, Bangalore.



The inauguration function was graced by Prof. Mahendra Nath Bora as Chief Guest, Dr. Wooma S. Dev Nath as Guest of Honor and Prof. ARD Prasad as the Chairperson of the Programme, along with dignitaries of the University. The workshop aimed at developing an expertise on Open Source Software known as KOHA by providing a thorough training, tutorial, demonstration and hands-on practice. It also aimed at updating the professionals and

academic community about content management.

Out of 86 professionals who registered for the workshop, 25 were selected from Assam, Meghalaya, Tripura and Arunachal Pradesh. The resource persons included Prof. ARD Prasad,

HOD DRTC, ISI Bagalore; Prof. Devika Madali, DRTC, ISI Bangalore; Dr. Sunita Barve, NCL Pune; Dr. Gautam Kr. Sarma, IDOL Gauhati University and Dr. Firstborn Roy Sumer, Deputy Librarian, NEHU, Shillong.

## Professional Development Programme- “ Mentoring and Counselling ...key to holistic education” 17th – 18th February 2017

The course on Mentoring and Counselling ...key to holistic education was conducted as Staff Development Programme in the Spring Semester. The course was intended to provide an approach to mentoring and counselling from an educational and developmental perspective emphasizing wellness through prevention and growth enhancement counselling as much as through crisis interventions and remediation.



The objectives of the course were:

1. Understand the concepts of mentoring and counselling and how to apply these processes, strategies and intervention across the board - with students and stakeholders, and within systems;
2. Develop an increased awareness of one's own cultural lens and how it impacts the mentoring and counselling process;
3. Present aspects of developmental processes, wellness and prevention tactics that are the foundations of effective mentoring and counselling;
4. Facilitate the establishment of constructive, safe and ethical relationships with students and other stakeholders.

The programme was attended by 79 Faculty Members and 13 Non-Teaching Staff Members. The two day programme facilitated by Prof (Fr) George Palamattathil saw enthusiastic participation from the Vice Chancellor, Pro- Vice Chancellor, Registrar, Controller of Examinations and the University Faculty and Staff.

## The University Opens Center for Developmental Studies and Initiatives 23rd February 2017



The University, in its effort to carry forward its vision of being a catalytic agent to bring about progress and development to its neighbouring villages, launched its 'Centre for Developmental Studies and Initiatives' at an interactive meeting held with the leaders of local communities on 23 February, 2017 at Crystal Hall, Tapesia Campus. Workers, Self Help Group members, students and staff volunteers, the Vice Chancellor Fr. (Dr) Stephen Mavelly, explained why the University took such a step, "Opening this Centre is to formalize what we have been doing in bits and pieces during the last five years or so.

This is a seminal gathering to bring about a participatory approach in our interactions and interventions with our neighbours. The university alone cannot work for the development of the communities but we would like to work together with you to see developments in the community in education, health and standard of living. The 'Centre for Developmental Studies and Initiatives' will become a hub for study, research and developmental activities as a regular feature of our university. My hope is that every graduate in our university will spend some quality time in volunteering for developmental work in the villages of North-East India as a compulsory part of their studies with us. This Centre will start organizing that as we go along." Mr. Surjya Das, President, Digaru Goan Panchayat expressed his gratitude for the existence of the university and said that he is looking forward to working together with the University's various developmental initiatives.

Discussions were held on issues and challenges being faced by these communities in water supply, electricity, road, alcohol abuse, lack of infrastructure for social institutions, and disintegration of Government Assamese Medium Schools.

## Entrepreneurship Development and Incubation (Cell EDIC) Talk 28th February 2017

The Entrepreneurship Development and Incubation Cell organized a talk on changes recently introduced on a scheme named 'Support for Entrepreneurial and Managerial Development of SMEs through Incubators' on 28th February 2017. The scheme, introduced by the Ministry of Micro, Small and Medium Enterprises, Government of India aimed at reviving and strengthening the operations of the manufacturing sector, particularly small and medium enterprises and sharpen their competitiveness. The Scheme envisages selection of a large number of academic and training institutes and provision of financial support to set up at least 100 technology business incubators to host about 1,000 micro, small and medium enterprises.



The Entrepreneurship Development and Incubation Centre (EDIC) of the School of Technology, ADBU has also signed a Memorandum of Understanding (MoU) with Ministry of Micro, Small and Medium Enterprises (MSME), Govt. of India, New-Delhi under this scheme for setting up of a Technology Business Incubator. The agreement allows the incubator and incubates to apply various projects for getting the seed capital.

## Workshop on Managing Personal and Professional Roles 17th – 18th March 2017

A two-day workshop on Managing Personal and Professional Roles for Women in Higher Education Systems, collaboratively organised by the Gender Amity Committee of the University and the Association of Commonwealth Universities (ACU), UK, was held on 17- 18 March 2017.

These sessions were facilitated by renowned educationist Prof. Kranti Jejurkar, of Bombay University, and Ms. Shanthalembi Lisham, Member, GAC, ADBU. These topics were developed with reference to the Workshop Manual— Management Development for Women in Higher Education (4-6), published by the Commonwealth Secretariat and ACU.



The programme was attended by a panel of eminent personalities engaged in the fields of gender justice, education and development work. Mr. John Borgoyary, Regional Head, United Nations Development Programme, Northeast India, attended the programme as the Chief Guest. “Mainstreaming gender in all spheres of development is the key to reach the Fifth Goal of the United Nations’ 2030 Agenda for Sustainable Development. In order to achieve gender equality and empowerment of all women and girls it is necessary to change the stereotypical notions surrounding the personal and professional roles of men and women in our society,” said Mr. Borgoyary in his keynote address. “Ideological commitment to gender equality by both men and women of our society will foster a more just society for women,” addressed Prof. Meeta Deka, Head, Department of History, Gauhati University, who attended the Workshop as the Guest of Honour.

The facilitators and the participants shared their personal and professional experiences in social as well as organizational settings, covering all the key areas— knowledge, attitudes and skills— required for moving along a journey of successful and dignified personal as well as professional lives in the future. Amazing stories of courage, strength and resilience shared by the participants were skillfully taken up, analysed and presented by Prof. Jejurkar, the resource person, as successful examples of how it is possible to confront, overcome and change demeaning personal and professional situations of women into that of success and justice.

## All India Survey on Higher Education (AISHE) Workshop 27th March 2017

At the request of the Government of Assam, the University organized a one-day workshop of All India Survey on Higher Education (AISHE) on Maintenance and Updating of Institutional Data for Technical Institutions of Assam, on 27 March 2017 at Azara Campus. AISHE is a programme initiated by the Ministry of Human Resource and Development and it is important for policy decisions and research for the development of education sector at District, State and All India levels. AISHE covers information of an educational institute on enrolment at various levels, human resources, infrastructure, income and the expenditure.



The nodal officers of various technical institutes of Assam participated in this workshop as directed by the Directorate of Technical Education, Assam. The resource person, Prof. Jamal Hussain, Head of Department of Mathematics and Computer Science of Mizoram University facilitated the workshop. During the first session which focused on the importance of accuracy of data uploaded by colleges, Dr. Jamal Hussain gave a clear presentation on how to maintain correct data and implications of such data. Technical assistance was provided to some institutions that could not proceed in filling up of some parts of the Data Capture formats that were required by them to be filled.

In the following session, Professor Jamal explained the new format of Teacher Information Form (TIF) which is designed to collect the data on each teacher from survey 2016-17 onwards. It contains details of all the teachers employed with the University/ Institution of Higher Education. Maintaining correct data will help in building the nation as well as strengthen the image of the University/Institution said Dr. S. Nissi Paul, Assistant Registrar of Assam Don Bosco University in her concluding remarks.

# School of Technology

## Short Term Course on Electronic System Design (STCESD)

31 May to 6 June, 2016 and 9th June to 11th June

A two week Short Term Course on Electronic System Design (STCESD) was conducted by the Department of Electronics and Communication from 31 May - 11 June, in collaboration with Tevatron Technologies Pvt. Ltd, Noida, Uttar Pradesh. Speaking at the inaugural function Mr. Aditya Mudgal, Trainer, Tevatron Technologies invited the students to raise questions and make the best use of the expertise in the field of Embedded System to be provided during the workshop. In this function, the Convener of the Workshop and HoD of the Department of Electronics and Communication, Prof. Sunandan



Baruah expressed his hope for further collaboration with Tevatron and said that the workshop aimed to expose the participants to three domains of Electronics – Embedded System (mainly AVR micro-controller), Cadence and Verilog. AVR Microcontroller Session was conducted by Mr. Aditya Mudgal from 31 May to 6 June, 2016. Some of the vital topics covered included LED Interfacing with AVR Micro-controller, DC Motor Interfacing with AVR, IR Sensor Module Detection, RFID Reader and Obstacle Avoider Robot. On 7th and 8th June, Cadence Session was conducted by Mr. Basob Das and Mr. Agnimitra Borah, Assistant Professors of ECE Department at GIMT. During these sessions, some of the important topics like Inverter, Designing Transistor Switch Modules, Voltage Transfer Characteristics and Noise Margin Calculations were covered and discussed. Verilog Session was conducted from 9th June to 11th June by Mr. Ujjwal Kaushik from Tevatron Technologies. Designing of Combinational Circuits, Gate Level Modeling, Dataflow Modeling were some of the important topics covered. The workshop was concluded on 11th June with Mr. Mriganka Gogoi, Co-convener of the workshop giving an overview of the workshop.

## National Level Workshop cum Summer Internship on Web Applications Development (NSIWAD 2016)

30th May to 11th June 2016

The Department of Computer Science and Engineering & Information Technology organized a two week National Level Workshop cum Summer Internship on Web Applications Development (NSIWAD 2016) from 30th May to 11th June 2016 in collaboration with Zantrik Technologies Pvt. Ltd. and Usense Innovative Solutions Pvt. Ltd., Guwahati. The Summer Internship was organized with an objective to expose and acquaint the participants with state-of-the-art tools and



technologies involved in designing and developing professional web applications.

The workshop panel comprised of twenty experts in several sub-areas of web applications development. Mr. Shantanu Goswami, Technical Director from Zantrik Technologies Pvt. Ltd gave hands on training on Node JS while Ms. Dipeeka Kashiram Suryawanshi, UX Director and Mr. Rahul Agarwal, Mobile Lead from Usense Innovative Solutions Pvt. Ltd. gave hands on training on Angular JS. There was also an interaction session with some of our University alumni, who are working in organizations like Larsen & Toubro, InfoTech Limited, Just Dial, Zaloni Technologies India Pvt. Ltd., Kyungpook National University, South Korea and Australian National University etc. 38 participants took part in this Summer Internship, coordinated by Dr. Pranab Das and Mr. Sarat Kr. Chettri, Assistant Professors from Department of CSE & IT, ADBU.

### 10 Day Training on AutoCAD and ABAQUS 30th May – 10th June 2016

The Department of Civil Engineering organized a 10 day Short Term Training on AutoCAD & ABAQUS from 30th May – 10th June 2016. The training course aimed at making the participants understand about the drafting knowledge and modelling capabilities of these softwares. ABAQUS is used in the automotive, aerospace, and industrial products industries. The software is popular with academic and research institutions due to the wide material modeling capability, and the programme's ability to be customized.



AutoCAD is a computer-aided drafting software program used to create blueprints for buildings, bridges, and computer chips, among other things. Asst. Prof. Ningombam Thoiba Singh of Civil Engineering trained the students in both the software and coordinated the programme with the support of Mr. Tapash Biswas, Laboratory Instructor, Civil Engineering Department.

### Symposium on New and Renewable Resources 23rd April 2016



The Department of Electrical and Electronics Engineering organized a symposium on 'New & Renewable Energy Resources' on 23rd April 2016, aimed at building the awareness and interest among the students towards renewable energy research. The regional office, Ministry of New and Renewable Energy (MNRE) also participated in the symposium. Dr. Dharma Ranjan Das, Advisor to the Govt. of India, MNRE, was the Chief

Guest. The last talk was delivered by Mr. Jesif Ahmed, Assistant Professor of EEE

Department where he gave a detailed description on wind energy. Right from the basics, he elaborated controlled Wind Energy Conversion (WCS) system with various wind generator models and explained the strategic technical parameters and calculations. Showing interesting videos on wind energy, he assured that everybody can make a wind generator without much effort. With the successful commencement of this second symposium on “New & Renewable Energy Resources”, the Department of EEE has set a target of becoming a key player in the frontiers of renewable energy sector in the North East.

## Workshop on Internet of Things 26th - 27th May 2016



The University’s Department of Computer Science & Engineering and Information Technology in collaboration with CDAC – Pune and Silchar organized a two-day workshop titled ‘Internet of Things (IoT)’ at the University’s Azara Campus, 26-27 May 2016. The workshop aimed at empowering northeastern work force with IoT Skills to support Digital India and Smart City initiatives by Government of India.

The IoT is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. The workshop, conducted by resource persons from Center for Development of Advanced Computing (CDAC) Pune and Silchar was attended by 36 participants from eight different institutions including faculty members from the University’s School of Technology. Commenting on the workshop, one of the members of the Organizing Team, Asst. Prof. Vijay Prasad said, “The workshop was very insightful and interesting as we learned about projects of the Smart City Initiatives and how we can play a role in its success.” Head of Department, Computer Science Engineering Prof Jayanta Yumnam added, “The workshop aimed to introduce the concept of IoT Landscape and give deep and inside knowledge about IoT with industrial applications to build up each participant’s overall understanding of this important area.”

## Workshop on Spoken Tutorials 27th – 31st May 2016

In a major venture to train 300 teachers from rural areas of Assam’s Kamrup district the University teamed up with Rashtriya Madhyamik Siksha Abhiyan (RMSA) in conducting one-day training for five batches of teachers. “I am particularly grateful to Assam Don Bosco University for extending its support in organizing the Information and Communications Technology (ICT) based training for the teachers of secondary schools



of Assam,” said R. C. Jain, Mission Director, RMSA, Assam. The one-day training programme started on May 27 for the teachers of Kamrup (Rural) District that has about 300 schools. Each batch has some 60 teachers who attended one day hands on computer based training, which ended on May 31. These teachers will in turn become trainers for the rest of the faculty in their schools.

During the one-day Master Trainer Programme, the participants were taught how to use the freely available eResource called the Spoken Tutorials developed at IIT Bombay. The Spoken Tutorial project is the initiative of the “Talk to a Teacher” project of the National Mission on Education through Information and Communication Technology, launched January 26, 2010, by the federal Ministry of Human Resources Development. A variety of Spoken Tutorials on various Free and Open Source Software (FOSS) in various Indian regional languages are available at their website <http://www.spoken-tutorial.org>. The philosophy behind this project is that learning is more effective when animation and narration are presented simultaneously through a video. The objective of Spoken Tutorial, says ADBU Pro Vice-Chancellor and FOSS promoter Fr. Joseph Nellanatt, “is to assist a lonely boy or girl student in a remote village in the middle of the night to learn a computer related topic by merely watching and listening to a video on the topic s/he chooses, without assistance.” The target group, Fr Nellanatt adds, “is the community at large, including school and college students, working and retired professionals, housewives, teachers, trainers, research scholars, software users and developers.”

## Colloquium on Disruptive Potential of Solar PV and Electric Vehicles 22 August 2016

On 22 August, 2016, the Department of Electronics and Communication Engineering organized a Colloquium on ‘Disruptive Potential of Solar PV and Electric Vehicles’. Prof. Kailash Srivastava, ABB Global Research Lab, Sweden was the speaker of the colloquium. Prof. Srivastava is a power system professional with well-rounded experience in various sectors across the globe. Speaking about various potential prospects of solar photo voltaic (PV) and electric vehicles, he said, “Food, water and energy are inseparably connected. Water is an input for producing agricultural goods in the fields and along the entire agro-food supply chain. Energy is required to pump water from groundwater or surface water sources. Energy is also required to distribute water and food, to power tractors and irrigation machinery and to process and transport agricultural goods and as such the world of 2030 will be hungrier for energy”. He also covered topics on the future of electricity generation, use of electricity, solar cells, lithium-ion batteries and sensors, and how the power system would develop to meet the needs of consumers.

Prof. Srivastava predicted that in this new era of energy revolution solar PV will become the world’s main source of energy well before 2030 and that the complementary technologies that will, together with PV, disrupt the whole energy industry are electric vehicles and self-driving cars. Participants included students from the undergraduate and postgraduate programmes of the university especially those under the electrical and electronics disciplines and research scholars and faculty members and the talk ended with a fruitful interaction session.

## Symposium on Modern Instrumentation and Control in Industry 27th August 2016

To bridge the industry-academia gap, Department of Electrical and Electronics Engineering (EEE), School of Technology, Assam Don Bosco University, organized a symposium on 'Modern Instrumentation and Control in Industry' for Faculty, School of Technology and Students of the Department on 27th August, 2016. The main objective of the symposium was to familiarize the students with the modern instrumentation and control systems used in industry

The invited talk was delivered by Industry Expert- Mr. Abhijit Singh Chowdhury, Chief Instrumentation Manager, Indian Oil Corporation Limited (IOCL). Mr. Chowdhury started his dialogue with a quote by Lord Kelvin, "When you can measure what you are speaking about, and express it in numbers, you know something about it, when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind; it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of Science, whatever the matter may be". His talk was based on "Process instrumentation and Control system", and the presentation started with a brief insight into the history of various measuring instruments. He mainly emphasized on pressure, flow and level measuring instruments and also explained their working & practical applications. "As instruments are the eyes and ear of any plant, so choosing the proper instruments with their proper installations is also very crucial for reliable and flexible operation of the process", Mr. Abhijit said. Further, he included Distributed Control System (DCS) and Programmable Logic Controller (PLC), their designs and basic differences between PLC and DCS in his lecture, explaining about different process flow and process instrumentation diagrams. "Automation i.e., replacement of manual control activity in modern control systems is the need of the industry, it requires only about 4% - 5% of the total investment cost for a particular project and gives the returns in 2 years, so it is better to go for an automated control system than a manual control system", the invited speaker added while replying to queries from the participants.

It is worthwhile to mention that an instrumentation and control engineer is responsible for designing, developing, installing, managing and/or maintaining equipment which is used to monitor and control engineering systems, machinery and processes. Typical technologist opportunities for employment exist in the chemical, petroleum refining, food processing, automotive manufacturing, steel production, mining, and pulp and paper industries. The talk was concluded with the thought- 'Do what the French did 200 years ago...they passed a law requiring an explosives manufacturer to live on the premises...with his family'.

## AICTE Vigilance Awareness Week 31st October to 5th November 2016

As per the AICTE letter to all Technical Institutions, the School of Technology observed the Vigilance Awareness Week from 31st October to 5th November 2016. The observance of the week was conducted by spreading general awareness through the daily morning assembly address, group discussions and the "Citizen Integrity Pledge" involving the management faculty members and the students. As part of this Vigilance Week, a Debate Competition was



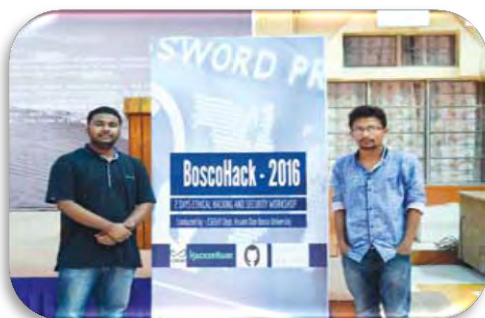
organized on 2nd November in association with Airport Authority of India with a topic ‘Whistle Blower Mechanism and Public Participation in Control of Corruption’ where 12 students participated. Nilay Bhandar Kayastha from the Department of Electrical Engineering won the first prize while second prize and third prize went to Ilakshi Deka and Shreyashi Das respectively from the Department of Electronics and Communications Engineering.

Three official teams headed by Joint General Manager (HR), for RED, NER, Shri S. K. Upadhyya, from Airport Authority of India witnessed the event and expressed appreciation to the University for successfully organizing the debate competition on a burning and sensitive topic.

A Panel Discussion was also conducted on 4th November, 2016 on the topic “Public Participation in Promoting Integrity and Eradicating Corruption”. The panelists included Mr. Mahesh Kumar Seth, Chief General Manager, BSNL, Fr. Joseph Nellanatt, Pro Vice Chancellor, Fr. Francis Fernandez, Controller of Examinations and Dr. Manoranjan Kalita, Director of the School of Technology. The Chief Guest, Mr. M. K. Seth, CGM, BSNL, Assam telecom circle, in his address, emphasized on self-reliance, self-vigilance, self-visualization and self-realization. According to him every one wishes to be happy and for this continuous positive input to body, mind and soul of self is indispensable. For body good food, for mind good thought and for soul pure love are the positive inputs. If every individual carries a healthy positive spirit, then society will automatically become corruption free.

## Bosco Hack 2016 15-16 October 2016

The Department of Computer Science & Engineering and Information Technology organised a two day ethical hacking workshop ‘BoscoHack – 2016’ on 15-16 October 2016. Mr. Lakshya Jyoti Borah, co-founder and Chief Technology Officer of



Gratia Technology Private Ltd. and Mr. Indrajeet Bhuyan, a 2nd year B.Tech student from Don Bosco University were the resource persons. The topics covered in the workshop included introduction to ethical hacking, foot printing and reconnaissance, scanning networks, enumeration, Google hacking; advanced Google hacking, Online account hacking and security, data hiding techniques, android hacking and SMS spoofing, Trojans and RATS, hacking email

accounts and tracing, introduction to DVWA and Kali Linux, system and windows hacking, Metasploit, reverse engineering, cross-site request forgery, session hijacking, SQL injection, hacking web applications, password cracking, social engineering, cyber laws and introduction to bugs bounty. The event was sponsored by Github, Cybrary, Skillshare and HackerRank.

## Extension Activity - Training on House Wiring 28th November - 3rd December 2016

A part of the University's outreach programme christened 'Swabalamban', the Department of Electrical and Electronics Engineering organised a week-long free training programme on house wiring for the educated unemployed youth of the locality from 28th November to 3rd December 2016. 'Swabalamban' which began three years back is the University's outreach programme, which aims at skilling and empowering the unemployed local youth, thus enabling them with the capacity of self-employment and livelihood. The programme had been hugely successful in the previous two years and some of the trainees are now either self-employed or being employed in various organisations, by virtue of the training they received. This year's training programme, sponsored by the Department of Electrical and Electronics Engineering has 8 participants from Hatkhowapara, Noapara, Bongara and Godhuli Bazar area of Azara locality.



## Workshop on Introduction of Simulation of Mechanical Systems using ABAQUS and MATLAB 24-25 September 2016

A two day workshop on "Introduction of Simulation of Mechanical System by using ABAQUS and MATLAB" was organized by the Department of Mechanical Engineering, 24-25 September 2016. Addressing the participants at the beginning of the first sessions, Prof. Manoranjan Kalita, Director, School of Technology spoke on the necessity of using ABAQUS and MATLAB for better understanding various subjects in Engineering. Dr. Kalyan Kr. Das, Registrar, Assam Science and Technology, gave basic ideas on the application of Finite Element Method and Finite Difference Method in Wind Engineering. Other resource persons who conducted a session each are Mr. Abhishek Sarma, Mr. Tapash J Kalita and Mr. Sidharth Borkotoky and Pallav Gogoi, Assistant Professors of the Department of Mechanical Engineering, the School of Technology. Asst. Prof. Pallav Gogoi, also the Co-ordinator of the workshop said, "The sessions conducted in this workshop were all very interactive and beneficial for the students. We are planning to hold more of such workshop next year".

## Workshop on Andro Engine 17-18 October 2016



The Department of Mechanical Engineering and Techtron Technologies in association with Elan 2017, IIT Hyderabad organized a two day Andro Engine Workshop, 17-18 October 2016. ANDRO is a combination of two words – Android & Arduino. The workshop is a hybrid of different engineering streams - Mechanical Engineering, Computer Science Engineering & Information Technology. The

concept of this workshop is to overhaul a 2 Cylinder 4 Stroke petrol engine & use of an Android phone as a developer base and an Arduino microcontroller to ignite or start the engine instead of the engine key. The workshop was conducted by Mr. Durga Prasad Yadav, Sr. Research Engineer, along with his assistant Mr. Vinod Kumar and Mr Kashish Nagpal, Director of Techtron Technologies. During these two days, participants were exposed to the introduction of an IC Engine to embedded system in a microcontroller, which help them get a fair idea on the performance and execution of Arduino. The resource person engaged the participants in a hands-on programming on Arduino and Bluetooth in their laptops which were set parallel with the resource person. The workshop was supported by Draco Designs (Art & Tech partner), Allahabad Bank, Royal Enfield (Chirag) & Tech Variable.

### Workshop on „Fusion 360“ 19th October 2016

The Department of Mechanical Engineering on 19th October organized a one day workshop on 'Fusion 360', a cloud powered 3D CAD/CAM



software for product design that connects an entire product development in a single cloud based platform that works on both Mac and PC. It is developed by Autodesk Inc, a multinational software corporation that makes software for architects, engineers, media and entertainment industries. The resource person Mr. Amarpreet Singh Sadhu, HoD CAD/CAM, RCPL started the workshop with a presentation on 'a brief

introduction of RCPL and Autodesk'. After the introductory presentation, the participants had a hands-on training in the Artificial Intelligence Lab. They were also introduced to commonly used 3D CAD modelling softwares for Mechanical Engineers like Creo, Catia, Solid Works and others.

### Extension Activity - Basic Computer Literacy Training for Neighbourhood Women

24th - 25th November 2016

VanitAgrata, Women Empowerment Cell of the Department of Computer Science & Engineering and IT organized a two day training on Basic Computer Literacy for the neighbourhood women, 24-25 November, 2016. The initiative, conceptualized by VanitAgraha aimed at providing basic computer literacy training to neighbourhood women to enable them to use computers and related technology efficiently and equip them with basic skills required for surfing the internet. Various hands-on training covered during



these two days included – basics of using a computer, basics of internet and emailing, and Microsoft Office Word. One day training on the same topic had also been organized for Rangmahal High School Lady Teachers, North Guwahati on 21 November.

## National Conference on Environmental Remote Sensing 13th -14th December 2016

The conference, organized jointly by Department of Electrical and Electronics Engineering and Department of Civil Engineering, School of Technology, ADBU, was co-sponsored by Indian Space Research Organization (ISRO), Department of Space, Govt. of India. The conference was inaugurated by the Chief Guest, Shri PLN Raju, Director, North Eastern Space Applications Centre (NESAC). Prof. Arup Kumar Sarma, IIT Guwahati was the guest of honour for the inaugural session and Dr. Sameer Saran, Scientist SF, Indian Institute of Remote Sensing delivered the keynote address. Dr. Stephan Mavelly, Vice- Chancellor, Assam Don Bosco University (ADBU) extended his heartfelt gratitude to all the resource persons, participating researchers, students and organizers for making this attempt of holding a National Conference on remote sensing application as remote sensing technology has not yet been utilized extensively in spite of having enormous scope for North East India. The inaugural ceremony was presided over by Prof. Manoranjan Kalita, Director, School of Technology and the Chairman of the conference. The resource persons include, Parag Phukon, Head of Geological Sciences, Gauhati University, Prof. Subashis Dutta, Head of Civil Engineering, IIT Guwahati, Prof. Anup Sakia, Head of Geography, Gauhati University and Dr. Dhrubajyoti Sahariah, Dept. of Geography, Gauhati University. They delivered invited talks on various aspects of environmental remote sensing. The conference was attended by more than 70 participants and 21 technical papers on various topics supported by remote sensing such as engineering, geography, geology, environment, hydrology and meteorology were presented.

## Inauguration of Spring Semester 2017 - School of Technology 17th January 2017

Spring semester for the School of Technology, Assam Don Bosco University was inaugurated on 17th January. Vice Chancellor Rev. Father Stephen Mavelly graced the occasion in the presence of the Director, School of Technology, members of the faculty, staffs and students. The program began with the traditional way of lighting the lamp to invoke almighty God's blessing for the new semester. This was followed by a warm welcome speech delivered by Prof. Manoranjan Kalita, Director, SOT, ADBU. The main highlight of the day was the observation of the Death Anniversary of Rupkonwar Jyoti Prasad Agarwalla observed as Silpi divas- Artists' Day. He was considered as Assamese cultural icon. The tribute was organized under the guidance of Asst. Prof Mr. Bikramjit Goswami.

## Two Week ISTE Workshop 30th January – 4th February 2017

A two week ISTE Short Term Training Programme on CMOS, Mixed Signal and Radio Frequency VLSI Design was held from 30th January – 4th February, 2017 at the School of Technology. Out of two weeks, one week was equivalent to five physical weeks where video lectures and assignments were uploaded. After completing the assignments spread over 5



weeks the participants assembled at the remote center for one week face to face interaction and lecture sessions through A-View software and completed team assignments, tutorials, quizzes etc.

The course was focused on the following three issues and some case studies:

- Design, analysis and implementation of CMOS Mixed Signal and RFIC are attractive topics both in academia and Industry.

- CMOS RFIC design is a challenging and critical engineering task particularly in the arena of deep submicron technology.
- There is a strong demand of manpower having through knowledge and hands on experiences in VLSI design using state of the art EDA tools.

This ISTE-STTP is completely funded by National Mission on Education through ICT (MHRD, Government of India). The course was free for the participants and all the live videos were recorded and the final edited audio-visual contents along with other course materials will be released under open source for free access. There were twelve participants for the STTP from Assam Don Bosco University, Gauhati University and Assam Engineering College.

## Observation of National Science Day 28th February 2017

Basic Science Club of the School of Technology organized a Quiz Competition in commemoration of the National Science Day on 28th February 2017. Out of 17 group participants, 6 groups were selected for the final round. The competition covered topics on latest scientific developments and basic scientific facts with quizmaster Asst. Prof. Parag Bhattacharya from the Department of Basic Sciences.

## Industrial visit for the students of the department of Electrical and Electronics Engineering 4th March 2017

As a part of its continuous effort to bridge the industry academia gap and to make the students industry-ready, the department of



Electrical and Electronics Engineering department, School of Technology, Assam Don Bosco University organized another industrial visit for the students of the department, this time to India's first HVDC substation located in Bishwanath Chariali (Assam) on 4th March 2017. Final year students along with some faculties visited India's first high-voltage, direct-current (HVDC) transmission line

originating from the substation which is of 800 kV, 6000MW connecting the northern states with the north-eastern ones.

# School of Humanities and Social Sciences

## International Student Volunteer Exchange Programme

13th June – 11th July 2016

A team of 15 volunteers from the Department of Social Work in collaboration with 10 volunteers from University College Dublin –



Volunteer Overseas worked on community development projects in partnership with local communities in Sonapur District for a month 13 June – 11 July, 2016. Some of the project activities included the repair of a well, capacity building workshops for livelihood development, English classes, and refurbishment of Anganwadis at Ural/Kachari Basti and Tapesia No. 2 villages. The volunteers also organized a sports day and talent

show for local youth and children as a conclusion to a month long project activities. The student volunteer exchange programme which had been organized for the third time envisages promoting understanding of multilateral issues at the global level, enhancing the competencies of the participants, and building skills and ability to work in close collaborative social, economic, political, environmental and development concerns in the context of rapid globalization.

## Consultation on Ending Violence against Children

21st June 2016

The Vice Chancellor Fr. (Dr) Stephen Mavelly inaugurated a two day National Children's Consultation on Ending Violence Against Children, organized by NACG-EVAC India (National Action & Coordination Group for Ending Violence Against Children), in collaboration with Don Bosco University and UNICEF, on 21 June 2016 at the Azara Campus of the University. There were 46 children, from 11 different states, and 20



chaperons participating in the two-day consultation. Explaining the rationale behind the Consultation, Dr. Chiranjeeb Kakoty, Director, North East Society for the Promotion of Youth & Masses, said, "The Government of India (MWCD) Report on Child Abuse has found that 2 out of three children still face physical punishment. We are trying to address this issue". Addressing the gathering, the Chief Guest, Fr. Stephen Mavelly said, "Don Bosco, our founder, started Don Bosco Society on the very same ideals – to give shelter to youngsters and provide them with an ambience of safety, security, love and nurture. It is just befitting that the University plays host to this event". Also speaking at the inaugural session was Ms. Serena Tomasino, Specialist in Corporal Punishment Issues, UNICEF, Delhi. In her short speech she invited the participants to share their experiences saying, "We want to hear your

voices, your opinions – we want you to share with us what makes you happy and what makes you feel safe”.

## Research Methodology Workshop 3-12 April 2016

The University held a 10 day Research Methodology Workshop at Azara campus from 3-12 April 2016. The workshop, organized by the School of Humanities and Social Sciences and Sponsored by Indian Council of Social Science Research, New Delhi saw 18 resource persons and 30 research scholars participating from 20 universities across the country.

In his keynote speech Chief Guest of the inaugural programme Prof. V.K. Srivastava, Head, Department of Anthropology, Delhi University underlined the need for ‘scientific honesty and rigour to be ensured in research undertakings.’ Prof. Srivastava bemoaned ‘the plague of plagiarism’ that has surfaced in the recent past dragging very senior and reputed academicians into great embarrassment in academic circles. “The workshop aimed at building the competency in the participants to understand the meaning



and objectives of research in the Social Sciences while introducing various methods, techniques and strategies for research in social sciences, humanities and communication studies,” said Coordinator of the workshop and Head of Dept. of Mass Communication, Dr Machun Kamei.

There were 31 participants representing Rajiv Gandhi University, Arunachal Pradesh; Aligarh Muslim University, Aligarh; Babasaheb Bhimrao Ambedkar University, Lucknow; Central University of Gujarat; Gauhati University; Assam agricultural University, Jorhat; International Institute for Population Sciences, Mumbai; Banaras Hindu University, Varanasi; Guru Ghasidas Vishwavidyalaya, Bilaspur; Bharathidasan University, Tiruchirappalli; Mahatma Gandhi Antarrashtriya Hindi VishwaVidyalaya, Wardha; Patna University; North-Eastern Hill University, Shillong; Assam Don Bosco University, Guwahati; Nagaland University, Kohima and Sikkim University, Gangtok. Prof. Mini Bhattacharyya, Head, Department of Anthropology, Gauhati University was the ICSSR Workshop Observer. Dr. Upendra Choudhury, Director, ICSSR, New Delhi was the Guest of Honor at the valedictory function on April 12. He also conducted sessions on ‘Social Science Funding Opportunities in ICSSR’ and ‘How to Write a Good Research Proposal (from ICSSR Perspective)’.

## Workshop on „Healing our Planet“ 24th April 2016

The Department of Psychology and Counselling organised a one day International Workshop on ‘Healing our Planet: Ecosensitivity and Remediation’ in collaboration with Sri Ramanuja Mission Trust on 24th April, 2016 at the Azara campus. The workshop is a part of the Grand Global Peace Meet – IV. Three phases of the meet had been concluded in various parts of

India and the workshop organized at the University was a part of the fourth phase of the global meet. Addressing the participants, Professor S.A.R.P.V Chaturvedi, Founder and Managing Trustee of SRMT, Chennai said, “Over exploitation of natural resources by mankind is creating changes in climate, vegetation worldwide” and “the department of Psychology and Counselling needs to provide “Eco-counselling” to the people as the emphasis on counselling revolves around 3Cs - Comforting, Convincing and Converting the person ” He also suggested that workshops should be organized to cultivate eco-consciousness among the general public”.



Ms Cynthia Carvajal, Founder, Ocean Lifeline, Texas, USA spoke about how our actions directly or indirectly affect the ocean life. Ms Sotheavy Srey, Director, The Alliance for Conflict Transformation spoke on how the youth has a pivotal role to play in creating an eco-sensitive world around us which will contribute in protecting our planet from destruction. A total of 100 participants, from graduates to research scholars in various disciplines like Nursing, Sociology, Psychology and Education took part in the workshop. Participants of the workshop represented various institutes in Guwahati such as Gauhati University, Cotton College State University, Assam State University (Silchar), Dispur Nursing College, Karmashree Hiteshwar Saikia College, Pandu College, Nonoi College (Nagaon), Tolaram Bafna Hospital and Assam Don Bosco University.

### Workshop on Projective Techniques for Personality Test 14 -15 May 2016

The Department of Psychology and Counselling organized a workshop on Projective Techniques for Personality Assessment on 14 -15 May, 2016. The resource person, Dr. Ushri Banerjee, Assistant Professor from the Department of Applied Psychology, University of Calcutta, gave a lively lecture and organized various activities during the workshop. Dr. Bannerjee is not only an academician but also a practitioner in the field for the past several years and has ample experience in the psychological assessment and testing. The workshop was attended not only by the students of Don Bosco University but also by the students from various Colleges and Universities in Guwahati, including the faculty members of Handique Girls’ College and Royal Global School. The Workshop Co-ordinator, Asst. Prof. Sabiha Alam said, “The workshop was very successful and during the feedback session, the participants expressed that they look forward to more of such events in the future”.

### National Seminar on Development Perspectives 13th October 2016

National Seminar on Development Practice was organized by the Department of Social Work in partnership with SSNDR, Delhi on 13th October 2016 at Tapesia Campus. Fr. (Dr) Stephen Mavely, the Vice Chancellor, inaugurated the seminar highlighting the concept of

development perspectives and the type of perspectives the social work organizations should possess.



Dr. Basil Koikara, Registrar, ADBU presented an overview of the origin and growth of Assam Don Bosco University while each Director of Diocesan Social Service Societies (DSSSs) from Delhi region made a presentation on the problems and issues faced and the responses to address these issues in their dioceses in North India. The 3rd Year MSW students presented various issues faced by North-East States in India and suggested the way forward. The Seminar was attended by 7 Diocesan Social Service Societies of Delhi, Faridabad, Gurgaon, Shimla-Chandigarh, Jammu-Kashmir, Jalandhar and Rohtak and students and faculty members of the Department of Social Work

### Workshop on Project Cycle Management 21st - 25th October

The Department of Social Work organized a workshop on Project Cycle Management at Tapesia Campus for 22 participants hailing from



11 Non-Governmental Organizations (NGOs) and Universities. The programme was inaugurated by Dr. Riju Sharma, Director, School of Social Sciences and Humanities on 21st morning and was concluded on 25th evening (October) with the presentation of certificates by Fr. (Dr.) Stephen Mavelly, Vice Chancellor and Dr. Peter Paul, Development Officer. The five day programme, facilitated

by Dr. Lukose P J, HoD, Department of Social Work, Assam Don Bosco University, aimed to improve an understanding on the different stages of project and its management, i.e. Planning (identification and designing), Implementation, Monitoring, Evaluation, Documentation and learning the lessons for the next project or programme. The workshop also dealt with the local resource mobilization techniques and strategies. Ms Sotheavy Srey, Director, The Alliance for Conflict Transformation spoke on how the youth has a pivotal role to play in creating an eco-sensitive world around us which will contribute in protecting our planet from destruction. A total of 100 participants, from graduates to research scholars in various disciplines like Nursing, Sociology, Psychology and Education took part in the workshop. Participants of the

workshop represented various institutes in Guwahati such as Gauhati University, Cotton College State University, Assam State University (Silchar), Dispur Nursing College, Karmashree Hiteshwar Saikia College, Pandu College, Nonoi College (Nagaon), Tolaram Bafna Hospital and Assam Don Bosco University.

### „Photographing in Natural Light“ Workshop 25th-26th October 2016

A two day workshop on ‘Photographing in Natural Light’ was organized by the Dept. of Mass Communication from 25th-26th October, 2016. The workshop was conducted by Mr. El Dhar, professional photographer/cinematographer, who introduced to the students to see and understand natural light and put it to use to create images with depth and dimension. The workshop was also an introduction to manipulating natural light using reflectors, diffusers and other readily available materials.

### Lecture Series on Human Rights and Media October - November 2016

The Department of Mass Communication conducted three lecture series on ‘Human Rights and the Media’ spread across the months of October and November, 2016. The lectures were delivered by Dr. Ursula Fasselt, University of Applied Sciences, Frankfurt, Germany. Dr. Ursula introduced the concept of Human Rights and the UN protection system, freedom of expression and justification of the limitation of freedom of



expression as per Article 19 and 20 of the International Covenant on Civil and Political Rights. She also talked about the access to information for the marginalized section of the society, the balance between cultural and religious value and universal human rights (esp. women rights and family law). The lectures were attended by the Semester I and Semester III students of the department.

### National Press Day Celebration 16th November 2016

The Department of Mass Communication joined the rest of the country in celebrating the National Press Day on 16th November, 2016. Senior Journalist, Vice President Indian



Journalists Union (IJU) and two times member of Press Council of India (PCI) Mr. Geetartha Pathak was the Chief Guest for the occasion. He spoke eloquently on media integrity, media ownership and concentration of power and safety of media personnel. National Press Day is symbolic of a free and responsible press in India. This was the day on which the Press Council of India started functioning as a moral watchdog to ensure

that not only did the press maintain the high standards expected from this powerful medium but also that it was not fettered by the influence or threats of any extraneous factors.

As part of the programme, the students of the department displayed wall magazines and posters on various issues concerning the press in India. The program was attended by the faculties and students of the School of Humanities and Social Sciences.

## School of Commerce and Management

### Prajjwal Day Celebration 10th April 2016

The Annual Prajjwal Day was celebrated on 10 April 2016, with Mr. Pabitra Kalita, Manager, Federal Bank as the Chief Guest. Prajjwal Day is a special day for the neighborhood children who come for the Prajjwal programme every Sunday. This is a day when they can demonstrate their talents through songs, dances, and short plays. Prajjwal is a social outreach programme with an objective sensitizing the society to different aspects of social issues, thereby contributing towards inclusive growth. The forum, Prajjwal zeroed in, on catering to one of the basic needs of the schoolchildren, by organizing free education workshops during the weekends.



### Faculty Development Program for teachers of Army Public School Narangi 2nd June 2016

The MBA faculty conducted 3 sessions as part of the weeklong FDP at the Army Public School Narangi on June 2, 2016. The theme of this year's FDP program was "Transformation in Education – Futuristic trends". Of the three sessions conducted, Mr. Chandan Dutta started with a theme 'Strategic Planning and Lateral Thinking' with a focus on the need for a strategic planning and how the vision and mission of an organization can be aligned to achieve this plan. He then continued on the developing processes which can promote lateral thinking in schools. This was followed by a session on "Creativity in School Curriculum" by Mr. Pradeep Deka. This was an interactive session where the teachers were made to identify bottlenecks, which they felt crippled creativity. The teachers were then engaged in a discussion to find out ways by which these bottlenecks could be reduced. The concluding session was conducted by Mr. Bikash Kalita on the topic of "Project Based Learning". The session highlighted the efficacy of using contemporary Project Based Learning strategies for addressing the three broad competencies of 21st century learners-- cognitive, intrapersonal, and interpersonal skills. The teachers were introduced to the ideology behind PBL, which focusses on an instructional method related to the investigation and resolution of messy,

“real world” problems as a context for students to learn critical thinking and problem solving skills.

## Inauguration of the Academic Year

28th July 2016

The DBIM Academic Year 2016-17 was inaugurated on July 28, 2016 by Mr. Mrinal Gohain, Regional Manager, ActionAid. Mrs. Atreyee Barooah Thekedath, Director, Web.Com was the Guest of Honour. The ceremony began with paying our respects to Dr. APJ Abdul Kalam on his 1st death anniversary.

## Karvy 2-day workshop for MBA students

8th - 9th August 2016

Karvy, one of the top financial services companies offering customized financial solutions to its investors conducted a two-day workshop (8th and 9th of August 2016) on the “Basics of Financial Markets” for the management students at DBIM. Mr. Nishant Sharma - DGM, Marketing and Mr. Arun Mantri – Research Analyst from Karvy Stock Broking were the resource persons for the workshop. The workshop covered a number of topics from financial planning to the specifics of derivative markets. The uniqueness of the workshop lay in the fact that it was conducted in a role play fashion where students were made to play various roles. This not only increased the level of participation but also allowed the students to understand the concepts better. The workshop ended with the distribution of certificates of participation to the MBA students.

## UGC 12B Visit

2nd September 2016

A six-member team from UGC headed by Prof. Rajbir Singh, Director, Consortium for Educational Communication, IUAC (NSC), visited DBIM on September 2, 2016. This visit was part of the larger visit by the UGC team to certify Assam Don Bosco University as 12(B) compliant. This certification assumes significance as it makes our university eligible for central grants for various project undertakings. They were appreciative of the efforts put in by the management team in imparting high-quality management education in the region.

## Extension Lecture on Mutual Funds

6<sup>th</sup> September 2016

On 6th September 2016, Mr. Mrigesh Baruah conducted an interactive session with the 2nd year students of DBIM on Mutual Funds. Mr. Baruah has worked in many leading asset management companies, viz., SBI Mutual Fund, HDFC Mutual Fund and ICICI Prudential Mutual Fund in various capacities for the last 14 years. In his career he witnessed many business cycles in the economy and is well experienced to understand the nuances of the equity and mutual fund industry. He started the session with a simple crystal clear meaning of Mutual Funds, he talked briefly about the various types of MF schemes and emphasized on the liquidity feature of MFs which provides enough flexibility to investors to withdraw their investments whenever required.

## DBIM Excellence Award 6<sup>th</sup> September 2016

The School of Commerce and Management solemnized the annual DBIM Excellence Award on September 9, 2016 at the picturesque



Kharghuli Campus, Guwahati. The Excellence Award was constituted in 2011 to honor those students who demonstrate excellence not only in the field of academics but also in social commitment, extra-curricular activities and overall conduct, to the extent that they set examples for others to emulate.

Mr. Vinod Seshan, DC Kamrup, was the Chief Guest for the function. Fr. V. M.

Thomas, Provincial, Guwahati Province, was the Guest of Honor and Mr. Rohit Suri, renowned photographer and founder of Studio V18 was the special guest for the occasion. This year the award was split among Mr. Damian, Mr. Dency, and Miss. Mathia. The excellence award consisted of a certificate, a citation and a cash prize of ₹50,000. The Chief Guest, Mr. Vinod Seshan, IAS, in his address stressed on the need for service in keeping with the theme for the award ceremony. He recollected his personal association with Don Bosco and how he has been motivated by the selfless, dedicated service offered by the Salesians of Don Bosco.

## Library Day October 19, 2016

Don Bosco Institute of Management celebrated its 6th Julhash Ali Library Foundation day on the 19th of October 2016. The day-long program culminated with an evening program commemorating some very lively and colorful performances by the students of DBIM. Dr. G. N. Talukdar, Vice Chancellor (retd) was the Chief Guest for the evening program. Fr. Johnson Parackal SDB, Rector, DBIM offered a warm and hearty welcome to our Chief Guest. The evening program began with a group song by the MBA students. This was followed by a debate competition and a dance performance. The highlight of the evening program was the Quiz competition anchored by Mrs. Juri Sharma, Asst. Professor, DBIM.

Dr. G. N. Talukdar in his keynote address emphasized the importance of reading and how it can contribute to the overall development of an individual. The program ended with the distribution of awards for the various events followed by a vote of thanks proposed by our librarian Mrs. Gayatri Hazarika.

## Guest Lecture by Mr. K. Sukumaran, Dean, NISM 23rd Jan 2017

Mr. K. Sukumaran, Dean, NISM, conducted a session on “Economic Reforms and Indian Capital Market” for the MBA students. During the session, Mr. Sukumaran enlightened the

students about the growing interest of the common man in the financial markets. He also talked about the securities market in India and the need to start investments early. This session was a part of student extension lectures that are organized for the benefit of the MBA students.

## JourNEI 2017 24th February 2017

Don Bosco Institute of Management has organized its Management Fest “JourNEI 2017” on February 24th, 2017. It was aimed at discovering the hidden talents of MBA students. The sponsoring partner for the fest was Pepsi (Varun Beverages) and the program was attended by nearly 150 graduate students from several colleges in the city of Guwahati participated. An initiative on behalf of the Director, students and faculty fraternity proved to be a boon for the students. The fest had given a chance for management students to exhibit their extracurricular activities in terms of both management and cultural activities. Such events help in the overall development of students in various dimensions. There were 12 events conducted in total.



## Industry Visit to SEBI Regional Office 6th and 8th March 2017

As part of the student development program at DBIM, an educational visit was to SEBI (Securities and Exchange Board of India) Regional Office, Guwahai for the MBA students on the 6th and 8th of March.

The purpose of the visit was to help the students get an understanding and insight on the need and importance for financial planning. The two hour programme started at a round 2pm at their conference room where Mr. Jagannath Das, Assistant General Manager at SEBI who gave a talk on



Securities and Financial Planning. At the start of the programme all the students were given a booklet titled “Lessons on Financial Planning for Young Investors”. Mr. Das began his lecture with the fundamentals and basics of investment. He discussed how to set SMART goals, how to achieve these goals, the comparisons of risk and returns, savings and investments, SEBI roles, different regulators of finance like IRDA, PFRDA, NHB, etc., different schemes like CIS (Collective Investment Scheme), NPS (National Pension Scheme), etc. He discussed a lot on stock market trading and the various investment avenues in the Indian financial market. The students also learned some savings and investment related products

like Equity, Company fixed deposits, Bonds, Mutual Funds, Government Schemes, etc. He talked of the Precautions to be taken before and while making investment decisions by showing some cases of fraudulent companies and Ponzi Schemes. Later, Mr. Das had an interactive session with the students.

## Extension Lecture on General Insurance and Career Prospects 11th March 2017

On March 11, 2017, the MBA students had an interactive session with the Guwahati Branch head of SBI General Insurance, Mr. Natarajan Ramanathan. During the session, he explained how general insurance policies differ from life insurance policies. He also explained the possible career options in the general insurance sector. Mr. Ramanathan explained that the term general insurance includes health insurance, property insurance, insurance on vehicles, insurance against theft etc. He also explained when a person may or may not get his/her claim from the insurance company.



## Visit by Prof. (Dr.) Frank from University of Groningen, Netherlands 30 March 2017

Prof. (Dr.) Frank from University of Groningen, Netherlands, visited DBIM as part of his visit to Assam Don Bosco University. He spoke about his university which has about 30,000 students and which has recently received a Noble Prize in Chemistry. He also quoted Mr George Brenard Shaw - "Those who can, do; those who Can't, teach". In this short meeting with DBIM students , he told about how it is important to be managers because it meant managing people, and sometimes it can be tough as people have different personality and attitudes. Prof. Frank was accompanied by his wife Mrs. Esther.

## Workshop on GST and Student Employability 8th March 2017

A one day workshop on GST and Student Employability was held on 8th March 2017 for the students of B.Tech and B.Com in the Conference Hall of the School of Technology. The first lecture was delivered by Lalita Natarajan, Scientist C, ESSPC, Central Silk Textile, Ministry of Textiles, on the topic 'Cashless India or Cashless Transaction in India'. She highlighted the different mobile applications that have been introduced to promote cashless economy while listing the problems that are being faced by people using cellphones without internet facility and informed that a solution has been designed and was



recently launched. She ended her lecture by emphasizing upon the benefits of Cashless Economy.

The second session on 'One Country, One Government, One Tax' was facilitated by Samakhya Das, C.A. who started the session explaining the meaning of tax and the different types of taxes that are levied in India. Then he spoke on GST and the types of GST, the impacts of GST on the prices of Goods and Services. After that he explained the difference between GST and other taxes that are levied in the Goods and Services. This was followed by group discussion. The last session on 'Students' Employability' was facilitated by Mr. Sayan Roy from ICA who spoke about the techniques and training sessions that are designed to help the students to hone their skills to snare better opportunities according to their capacity.

## School of Applied Sciences

### MoU with Institute for Plasma Research 3rd May 2016

The University has signed an MoU with Centre of Plasma Physics – Institute for Plasma Research (CPP-IPR), Nazirakhat, Sonapur on 3 May 2016. CPP-IPR is a research center of Institute for Plasma Research, Gandhinagar, Gujarat, which is an autonomous body under the Department of Atomic Energy (DAE), Government of India. A group of Scientists initially formed the center in 1991 under the Department of



Science and Technology, Government of Assam. However, in 1999, it was taken over by DAE, Govt. of India. Both the Institutions agreed to collaborate in scientific research, lend hands in setting up of laboratories, mechanical/electronics workshops and sharing of infrastructure. The immediate areas that open up for collaboration are scientific research in nano-materials, thermal engineering, numerical simulation etc. In addition, the University students of science and technology will also be able to do their project works with CPP-IPR facilities under the guidance of CPP-IPR faculty. The MoU was signed by Prof. D. Bora, Director, Institute of Plasma Research, Gandhinagar and Fr. (Dr.) Stephen Mavely, Vice Chancellor, Assam Don Bosco University, with two witnesses from both the institutions – Prof. K.S. Goswami, Center Director and Associate Professor Mayur Kakati from the CPP-IPR, Prof. Sunandan Baruah, HoD, Department of Electronics and Dr. Monmoyuri Baruah, HoD, Department of Basic Sciences, ADBU.

# School of Life Sciences

## Research on Anti-Malarial Drugs



The University's Director of Research and Director of the School of Life Sciences, Prof. JN Vishwakarma's research proposal on 'the development of novel anti-malarial drugs' has been recently approved for funding by the Department of Biotechnology, Government of India (DBT). This proposed research will be carried out in collaboration with a team of Scientists from Central Drug Research Institute(CDRI), Lucknow. In this research

project, the research team led by Prof. Vishwakarma at Don Bosco University proposes to develop novel synthetic strategies for hitherto unreported molecular hybrids with potent anti-parasitic properties. The molecules synthesized by his team after thorough structural elucidation using modern spectroscopic and analytical techniques, will subsequently be submitted to the research team at CDRI, Lucknow, for the evaluation of their anti-parasitic activities. Presently, his team is working on a project titled 'medicinal and aromatic plants of NE India' generously funded by ICAR. In this project, he focuses on isolation of active ingredients of the traditionally known important medicinal and aromatic plant materials available in the region. Two research scholars have been employed to work with Prof. Vishwakarma in this project.

The highlight of current academic semester in the School of Life Sciences is the flurry of activities as the final semester students are attending their dissertation credits. This is the first batch of the School attending dissertation. For the students to be able to develop their own individual research proposals in consultation with their supervisors and thereafter planning and carrying out experiments, analyses and presenting the findings in a scientific manner all by themselves has brought about an atmosphere of thrill, thought and enquiry critical to the academic development of the School.

# Placement updates

The following organizations visited the University Campuses at Azara and Kharguli.

1. Armed Forces
2. ICICI Prudential Life Insurance Co. Ltd.
3. Axis Bank
4. Pepsi Co.
5. Nano Informatics
6. Taj Hotels
7. Cholamandalam Investment and Finance Company Ltd.
8. Janalakshmi Financial Service Ltd.
9. Tech Mahindra
10. Code Wizards
11. Costuso
12. Techruit
13. First Naukri
14. Wheelbox
15. Asahi India Glass Ltd
16. Hadwise Technologies
17. Genpact
18. Amazon
19. Shriram Value Services
20. Adecco
21. Usense Innovations
22. ITC Food Division
23. Royal Enfield
24. Ericsson
25. CMJ Breweries
26. Tele Performance
27. Reliance Jio
28. ByJus
29. ICICI Phone Banking

The following organizations in the Social Service Sector offered placement opportunities to final year students of the School of Humanities and Social Sciences:

- Women's Development Centre of Assam
- Centre for Development Initiatives (Holy Cross, North East)
- Uttar Kshetriya Samaj Vikas Kendra
- Jaintia Hills Development Society, Meghalaya
- Indo Global Social Service Society
- Montfort School for Differently Abled
- Bosco Reach Out
- Bosco Integrated Development Society
- Jhansi Seva Samaj
- People's Action for Development
- Medical Mission, Garo Hills, Meghalaya

In all 43% of outgoing students were placed and 9% of outgoing students opted for higher studies.

# Research Updates

Emphasizing, quality of education, the University encourages and chalk out plan to increase publications in research journals and magazines, conduct assessment of the quality of Conferences and Workshops organized by the University, Identify focus areas of research for each departments of the University. Set up research collaborations with external organisations to carry out research across wide spectrum of social issues, cutting edge technologies in electronics and nanotechnology and basic research through organic research lab Research wing of Assam Don Bosco University was heaved with activities and rewarding results.

- This academic session, the award of 12B Status, was given to ADBU. The University Grants Commission (UGC) provides financial assistance to eligible colleges which are included under Section 2(f) and declared fit to receive central assistance (UGC grant) under Section 12 (B) of UGC Act, 1956 as per approved pattern of assistance under various schemes.
- The following Journals published by our University were listed in the UGC Approved List of Journals
  - JOURNAL OF NORTHEAST INDIAN CULTURE (ISSN 23220988)
  - ADBU Journal of Engineering Technology (ISSN 23487305)
  - ADBU Journal of Development Practice (ISSN 2394-0476)
- The following Memorandum of Understanding was signed:
  - 23rd March, 2017: Friedrich Schiller University, Jena, Germany and Assam Don Bosco University to promote scientific and cultural exchange activities and focus on academic exchange in the fields of integrated land and water resources modelling, Geographical Information Systems and remote sensing.
  - 31st May, 2017: Grant of status for NIELIT Facilitation Centre to conduct Digital Literacy Classes
  - 6th June, 2017: for perspective planning by Assam Don Bosco University for Development of Social Work Programme (Bachelor of Art) at Royal University of Bhutan
- The following innovations were an outcome of ongoing research and development:
  1. Low cost laminar flow hood for microbial work: A custom designed laminar hood fitted with Hepa filter and UV light for conducting experiments using bacteria and fungus
  2. Setup for testing the performance of photodetectors: A laboratory set up using discrete components and virtual platforms for real time testing of photodetectors
  3. Design and Fabrication of a trike: A three wheel vehicle with performances superior to a standard bicycle. The developed trike gives a comfortable and relaxing ride.
  4. Setup for fabricating anodized alumina templates: A laboratory setup to grown membranes with nanometric pores that can be used for filtration as well as templates for growing nanorods.

5. Solar powered water purification plant for use during floods: A water purification system that works totally on solar energy which can purify water on site. Targeted for use during floods.
6. Design and Fabrication of a Rowing Mechanism For Small Boat Using Flapping Mechanism: A novel mechanism of rowing for use in low cost boats and rafts to be helpful in flood affected areas, as life boats in river
7. Low cost rotary shaker: A self-developed rotary shaker with electronic speed control for use in bacterial studies
8. Automatic Dam Gate Opening and Closing Control System: A novel mechanism to automatically control Dam gates to avoid untoward incidents during high water levels due to excessive rainfall
9. Fish quality sensor: A colorimetric sensor to assess the quality of packaged fish. The color of the sensor changes from green to blue when fish gets stale
10. Colorimetric sensor for monitoring quality of packaged fruits: A colorimetric sensor to assess the quality of packaged fruits. The colour of the sensor changes when fruits start rotting.

## Admission to Doctoral Programme

A total of thirty two candidates belonging to different discipline of studies were admitted to Ph.D., Programme for the batch of 2016.

## Award of Doctoral Degree

In this year, 6 were awarded the degree of Doctor of Philosophy having successfully completing the requirements of the programme. The candidates are:

1. Dr. S. Nissi Paul, from the department of Computer Science and Engineering.
2. Dr. Kezhangunuo Kelio from the department of North East India Studies.
1. Ms. Shunan Kaping from the department Chemical Science.
2. Mr. Chakradhar Das from the department Electrical and Electronics Engineering.
3. Mr. Ranjay Das from the department Electrical and Electronics Engineering, and
4. Mr. K.S. Joseph from the department of Social Work.

# Centre for Development Studies and Initiatives

The University, in its effort to carry forward its vision of being a catalytic agent to bring about progress and development to its neighbouring villages, launched its '**Centre for Development Studies and Initiatives**' at an interactive meeting held with the leaders of local communities on 23 February, 2017 at Crystal Hall, Tapesia Campus.

Addressing the gathering of 78 people, including Panchayat Presidents, Village Headmen, School Teachers, Anganwadi Workers, Self Help Group members, students and staff volunteers, the Vice Chancellor Fr. (Dr) Stephen Mavely explained why the University took such a step, "Opening this Centre is to formalize what we have been doing in bits and pieces during the last five years or so. This is a seminal gathering to bring about a participatory approach in our interactions and interventions with our neighbours. The university alone cannot work for the development of the communities but we would like to work together with you to see developments in the community in education, health and standard of living.

Sl. No	Name of the Project	Department	Faculty In charge	Date of Project start
1	Community Led Improvement Initiatives	Social Work	Dr. Lukose Jacob	2016
2	Educate to Empower (Adult Education Programme)	Education	Dr. Krishna Kalita	2017
4	Summer School Programme	CDSI	Ms. Hazel Wahlang	2017

Under this center, Assam Don Bosco University plays the role of a facilitator making available to people the human resource, knowledge, skills and practical expertise at its command. It works in the surrounding communities through the following:

## Community Led Improvement Initiatives

The Community Led Improvement Initiatives was initiated by the Department of Social Work in the year 2016. Currently works in 12 villages located around the University and plan to extend to 42 villages. In the twelve villages of intervention the project covers a population 5132 – men, women and children

The villages that it currently working are under Dimoria Block: 1)Jugdol 2)Upper Tapesia 3)Patarkuchi 4)Medhikuchi 5)Nam Tapesia 6) Goriaghili 7)Nazirakhat 8)Morangabari 9)Kalitakuchi 10)Jargaon 11)Chagoli goan and 12) Hatimora. All the villages are under Kamarkuchi Panchayat except Jargaon and Chagoligaon are under Digaru Panchayat.

CLII aim to promote improvement initiatives in the following areas:

- Livelihoods and Food security
- Promotion of Education
- Promotion of Community health

- Promotion of local self-governance systems
- Promotion of social security
- Community organization

### Strategic Objectives:

1. Getting involved in the lives of the people in the neighboring villages by promoting Community Led Improvement Initiatives in the identified six thematic areas to bring about positive changes and accompany the process.
2. Take forward all the studies we have made in the surrounding villages of Tapesia from 2013
3. Providing a platform for our students for their hands on learning by applying what is learnt
4. Providing opportunity to as many of for our students as possible to do their concurrent field work
5. Image building and implementing the social responsibility of the University in Tapesia campus
6. Provide avenues for the promotion of consultancy services and research
7. Departmental Coordination of the ongoing initiatives namely Swasthayan, Student Volunteer Exchange Programme (UCDVO-ADBU)and Cooperative movement

### Activities

#### I. Participatory Rural Appraisal

Participatory Rural Appraisal (PRA) is considered to be one of the most effective approaches to gather information in the rural areas and it aim to help strengthen the capacity of the villagers to plan, to make decisions, and to take action towards improving their own situation.

Date	Activities	Objectives	No. of Villages	Outcome
March-April 2017	1. Transact Walk 2. Time Line 3. Daily Activities 4. Social Mapping 5. Resource Mapping 6. Distance Mapping 7. Seasonal Calendar	1. To build rapport with the local people and establish a positive relationship. 2. To understand the living condition of the people in the village. 3. To gather information of the physical, socio-economic	1. Jugdol 2.Upper Tapesia 3.Patarkuchi 4.Medhikuchi 5.Nam Tapesia 6. Goriaghili 7.Nazirakhat 8.Morangabari 9. Kalitakuchi 10.Jargoan 11.Chagoligoan 12.Hatimora (On an average 10-15 village members where	-The Village people and the trainers now have a better understanding of the village. Each village has a Map of their village. -There are 994 households and 5132

		status of the village. 3. To identify the issues and available resources that is in the community.	present during the PRA activities)	people in these villages. -Alcoholism, Shortage of water and school dropout is the main problems encountered by the people. -Agriculture, daily labour and brewing and selling of alcohol are the main occupation of the villagers.
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## II. Community Programmes

Date	Activities	Objectives	No. of Participants	Outcome
2nd March -5th May 2017	Remedial English Class	-To help the students know the basic English. -To enhance the conversational skills of the students in English.	Hatimura 27 participants	- English conversational skills of the students are enhance -The students have a better understanding of the basic English. -Students are motivated to study and achieve success in life.
10th March 2017	Women's Day Celebration Theme "Be Bold For Change"	-Make women aware of their special day -To create a	Upper Tapesia 70 participants	-Women become aware of the power of being together.

		platform for them to participate -To encourage women to stand up for life		-Women found the platform to express themselves, their thoughts, emotions and talents. -Build a better rapport between the University and the Village
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### III. Awareness Programmes:

Several Activities are planned for the next month to be carried out with the objectives to promote Awareness on the Importance of Cleanliness, to make the children learn the steps of washing their hands, to encourage the students to practice personal hygiene, to impart moral values in children to enhance their socialization skills by singing together, Awareness Programme on Women Empowerment & Right to Education

### Educate to Empower

As part of an initiative of the Center for Development Studies and Initiatives and the Department of Education, the university will start an Adult Education Programme called “Educate to Empower (EE) Programme” in Hatimura Village, under Kamarkuchi Panchayat.

#### Objectives include:

- To provide Basic English literacy and numeracy to the women.
- To augment their knowledge on child care and healthy parenting.
- To enhance their knowledge of the educational and employment opportunities available.
- To enhance their understanding of physical and mental health.
- To encourage the women to practice balance diet.

**Target Groups:** Women of Hatimura Village

**No. of participants:** around 25 expected

The EE programme provide Basic English (Reading and Writing) Class for the women every Thursdays and Fridays. It includes different workshops every fourth week on issues expressed by the women like Career guidance (they can give to their children), Child Development and Parenting, Nutrition and Balanced Diet, Physical Health (communicable and non-communicable diseases) and Mental Health. The programme is a certificate programme of 6 months. Considering this, there are provision for regular evaluations in the form of Class tests and a summative evaluation. As this is the first time, the university has taken up a project like this; it is a kind of pilot study, after which similar programmes will be conducted for other nearby villages as per the needs of the community.

## Summer School Programme

Assam Don Bosco University's Center for Development Studies and Initiatives will conduct a Summer School Programme 2017 for Grade IX & X students of the neighboring villages (Marangabari, Upper Tapesia, Jargoan, Patharkuchi, Kamarkuchi and Hatimura), from 24<sup>th</sup> – 28<sup>th</sup> July, 2017.

**No. of Participants:** around 65 students expected.

**Objectives include:**

- To enhance the students' command of English Grammar.
- To increase their academic performance.
- To develop their self-esteem and emotional well-being.
- To augment their resilience in their pursuit for successful careers

**Activities:**

During these 5 days, Elementary English classes will be conducted in the morning hours, focusing on Basic English Grammar as students hailed from vernacular medium; while afternoon different Workshops on Motivation, Career Guidance, Adolescent Health, Examination Preparedness and Writing Examination and Workshop on Coping with Stress. Recreational activities will also be conducted for the children.

**Outcome:**

- The students realized the importance of the four Skills, viz. Listening, Speaking, Reading & Writing (LSRW) and Grammatical Competence or the Usage of correct Grammar in English language.
- The students learnt how to effectively prepare for examination.
- The students learnt how to cope up with stress and what to do to relax themselves and revive their energy.
- The students have a better understanding of their body and their health as teenagers.
- Remedial classes should be organize for the children on English and Mathematics.

**Conclusion**

The Centre for Development Studies and Initiatives is still in its infant stage taking nascent steps yet the Centre has a clear vision of empowering the community that is around. The university adopts a process oriented and a target oriented approach in achieving the vision. A participatory approach wherein the villagers discuss, deliberate, decide and execute what they require for their village is the *modus-operandi* in carrying out the activities. This gives a sense of ownership to the community for whatever is carried out and they become responsible for the success of the common efforts. The University thus plays a role of the facilitator in people's effort for their own development

# University at a Glance: Statistics

## PROGRAMMES OF STUDY

There are currently 8 graduate programmes, 16 post-graduate programmes, and 18 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
<b>School of Humanities and Social Sciences</b>		
8	Bachelor of Arts	BA - Philosophy
<b>Post Graduate Programmes</b>		
<b>School of Technology</b>		
9	Master of Technology	MTECH - Computer Science and Engineering
10	Master of Technology	MTECH - Electrical and Electronics Engineering
11	Master of Technology	MTECH - Electronics and Communication Engineering
12	Master of Technology	MTECH - Civil Engineering
13	Master of Computer Applications	MCA - Computer Applications
14	Integrated BTECH - MBA	MTM - Integrated BTECH - MBA
<b>School of Commerce and Management</b>		
15	Master of Business Administration	MBA - Business Administration
<b>School of Humanities and Social Sciences</b>		
16	Master of Social Work	MSW - Social work
17	Master of Arts	MA Human Rights (Child Rights and Development)
18	Master of Arts	MA Education (Educational Leadership)
19	Master of Arts	MA Mass Communication (Convergent Media and Technologies)
20	Master of Science	MSC Psychology (Psychological Counselling)
<b>School of Applied Sciences</b>		
21	Master of Science	Physics (Electronics /Nano Science/ High Energy)
<b>School of Life Sciences</b>		
22	Master of Science	Biochemistry

23	Master of Science	Biotechnology
24	Master of Science	Microbiology
<b>Doctoral Programmes</b>		
<b>School of Technology</b>		
25	Doctoral Programme	PHD - Computer Science
26	Doctoral Programme	PHD - Civil Engineering
27	Doctoral Programme	PHD - Electrical and Electronics Engineering
28	Doctoral Programme	PHD - Electronics and Communications Engineering
29	Doctoral Programme	PHD – Mechanical Engineering
<b>School of Commerce and Management</b>		
30	Doctoral Programme	PHD - Management
<b>School of Humanities and Social Sciences</b>		
31	Doctoral Programme	PHD - Social Work
32	Doctoral Programme	PHD - Mass Communication
33	Doctoral Programme	PHD - Language Studies
34	Doctoral Programme	PHD - Comparative Religion
35	Doctoral Programme	PHD - North East India Studies
36	Doctoral Programme	PHD - Philosophy
37	Doctoral Programme	PHD - Education
38	Doctoral Programme	PHD -Psychology and Counselling
<b>School of Applied Sciences</b>		
39	Doctoral Programme	PHD - Physics
40	Doctoral Programme	PHD - Chemical Sciences
41	Doctoral Programme	PHD - Mathematics
<b>School of Life Sciences</b>		
42	Doctoral Programme	PHD - Biotechnology

### Student Distribution in 2016-2017

Sl. No.	Department	Bachelor's Programmes			Master's Programmes			Doctoral Programme			Total
		M	F	Total	M	F	Total	M	F	Total	
1.	Electronics and Communication Engineering	52	23	75	5	12	17	6	9	15	107
2.	Electrical and Electronics Engineering	101	35	136	5	11	16	5	2	7	159
3.	Computer Science and Engineering and Information Technology	227	70	297	55	36	91	16	10	36	424
4.	Mechanical Engineering	205	8	213	-	-	-	2	0	2	215
5.	Civil Engineering	185	83	268	14	13	27	0	1	1	296
6.	Management	-	-	-	43	31	74	25	8	33	107

7.	Social Work	-	-	-	26	96	122	20	15	35	157
8.	Psychology and Counselling	-	-	-	8	15	23	3	7	10	33
9.	Mass Communication	-	-	-	6	5	11	6	5	11	22
10.	Education	-	-	-	6	13	19	3	8	11	30
11.	Physics	-	-	-	17	21	38	6	5	11	49
12.	Life Sciences	-	-	-	14	31	45	7	10	17	62
13.	Commerce	37	13	50	-	-	-	-	-	-	50
14.	Chemical Sciences	-	-	-	-	-	-	3	5	8	8
15.	Mathematics	-	-	-	-	-	-	1	2	3	3
16.	Language Studies	-	-	-	-	-	-	1	11	12	12
17.	North East India Studies	-	-	-	-	-	-	21	16	37	37
18.	Comparative Religion	-	-	-	-	-	-	8	2	10	10
	<b>TOTAL</b>	<b>807</b>	<b>232</b>	<b>1039</b>	<b>199</b>	<b>284</b>	<b>483</b>	<b>133</b>	<b>116</b>	<b>259</b>	<b>1781</b>

#### List of Graduating Students in 2016

PROGRAMMES	Degree	MALE	FEMALE	TOTAL
Bachelor of Technology ( Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communications Engineering)	<b>B.Tech</b>	113	59	172
Master of Technology ( Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communications Engineering)	<b>M.Tech</b>	15	17	32
Master of Business Administration	<b>MBA</b>	25	12	37
Master of Computer Applications	<b>MCA</b>	10	13	23
Master of Social Work	<b>MSW</b>	18	36	54
Master of Science in Psychology (Psychological Counselling)	<b>M.Sc Psychology</b>	1	9	10
Master of Arts in Human Rights (Child Rights and Development)	<b>MA Human Rights</b>	5	4	9
Master of Arts in Education (Educational Leadership)	<b>MA Education</b>	3	8	11

Master of Arts in Mass Communication (Convergent Media and Technologies)	<b>MA Mass Communication</b>	6	5	11
Master of Science in Physics	<b>M.Sc Physics</b>	3	12	15
PhD		4	3	7
<b>TOTAL</b>		<b>203</b>	<b>178</b>	<b>381</b>

### Gold Medal Winners 2016

Programme	Branch	Student ID	Name	CGPA
BTECH	CSE	DC2012BTE0156	Banashree Paul	8.93
	EEE	DC2012BTE0012	Aditya Upadhaya	8.94
	ECE	DC2012BTE0161	Mousumi Das	8.94
	CVE	DC2012BTE0077	Ankita Patowary	9.20
MTECH	CSE	DC2014MTC0017	Shahid Zaman Barbhuiya	8.00
	EEE	DC2014MTC0022	Sarbani Das	8.44
	ECE	DC2014MTC0042	Rima Deka	9.19
MCA	-	DC2013MCA0013	Runjun Das	8.49
MSC (Physics)		DC2014MSP0006	Rissanalin Syiemlieh	9.05
MA (Mass Communication)	-	DU2014MCM0002	Daniel Thomas	8.55
MA (Education)	-	DU2014MEL0001	Nasiha Idrees	8.5
MSW	-	DU2014MSW0056	Rasal Xess	8.74
MSC (Psychology)	-	DU2014MPC0003	Rodney Borneo	8.35
MBA	-	DI2014MBA0006	Dency Varghese Mundunadackal	9.04

Chancellor's Gold Medal for most significant contribution to campus life (PG): Kankana Barman (MSW)

Vice Chancellor's Gold Medal for most significant contribution to campus life (UG): Ankita Patowary (BTECH, CVE)

### Teaching Staff of the University

NUMBER OF FACULTY	MALE	FEMALE	TOTAL
Professors	23	3	26
Associate Professors	15	9	24
Assistant Professors	62	45	107
<b>TOTAL</b>	<b>100</b>	<b>57</b>	<b>157</b>

### Non-Teaching Staff of the University

NUMBER OF STAFF	MALE	FEMALE	TOTAL
Senior Administrative Staff	18	3	21
Library Staff	3	3	6
Office Staff	4	1	5
Technical Staff	25	3	28
Service Staff	14	21	35
<b>TOTAL</b>	<b>64</b>	<b>31</b>	<b>95</b>

### List of Journals Published by Assam Don Bosco University

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
The Journal of Development Practice	Mr. 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

## Ongoing Research Projects of the University

Sl. No.	Project Title	Principal Investigator	Funding Agency	Quantum (Lakhs)
1	A local audio-system for in-house object detection	Dr. Y. Jayanta Singh	All India Council of Technical Education (AICTE), Government of India	6.80
3	Design, synthesis and biological properties of novel adamantane-tetrahydropyrimidine/-quinazoline hybrids	Dr. JN Vishwakarma	DBT-Twinning, Department of Biotechnology, Government of India	41.92
4	Aromatic and medicinal plants project	Dr. JN Vishwakarma	ICAR, Government of India	125.00
5	Strategy development for the applications of biofertilizers into the soil to increase the soil fertility”: An efficient way to substitute the hazardous chemical fertilizer application	Dr. Prosun Tribedi	Department of Science and Technology (DST), Government of India	23.20
6	Isolation and characterization of soil microorganisms capable of degrading poly ethylene (PE) and exploration of the underlying mechanism of PE degradation by isolated microorganisms”	Dr. Prosun Tribedi	ASTEC, Government of Assam	3.25

**ANNEXURE (A) TO ANNUAL REPORT OF ASSAM DON BOSCO  
UNIVERSITY 2016-17**

Number of professional development / administrative training programs organized by the institution for teaching and non-teaching staffs

<b>Sl. No.</b>	<b>Dates (from-to) (DD-MM-YYYY)</b>	<b>Title of the professional development program organised for teaching staff</b>	<b>Title of the administrative training program organised for non-teaching staff</b>	<b>No. of participants</b>
1	05-07-2016 to 7-07-2016	Assam Don Bosco University Induction Programme	Assam Don Bosco University Induction Programme	13
2	22-07-2016 to 23-07-2016	Collaborating and Building Trust...for effective results	Collaborating and Building Trust...for effective results	110
3	27-08-2016	Modern Instrumentation and Control in Industries		42
4	14-09-2016	Workshop of POCSO(Protection Of Children from Sexual Offences Act) by Ms Lita Hazarika and Advocate Rita Das		20
5	14-10-2016 to 20-10-2016	Workshop in Academic Audit		11
6	13-12-2016 to 18-12-2016	National Conference on Environmental Remote Sensing		23
7	09-01-2017 to 13-01-2017	International Conference on Advances in Nano Technology		49
8	10-01-2017 to 16-01-2017	Assam, Don Bosco University Induction Programme	Assam, Don Bosco University Induction Programme	12
9	23-01-2017 to 25-01-2017		Workshop on Library Automation using FOSS	15

10	17-02-2017 to 23-02-2017	Mentoring and Counselling...key to holistic education		100
11	01-04-2017	Talk on Smart Grid in Assam		10
12	01-04-2017	Next G Communications - Are we ready?		16
13	29-04-2017	Impact of Climate Change on the Hydrology of Brahmaputra Basin		15

**ANNEXURE (B) TO ANNUAL REPORT OF ASSAM DON BOSCO  
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Number of teachers who had undergone online/face-to-face Faculty Development Programmes (FDP) (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

<b>Sl. No.</b>	<b>Name of teacher who attended</b>	<b>Title of the program</b>	<b>Duration (from – to) (DD-MM-YYYY)</b>
1	Hemashree Bordoloi	ISI-ADBU Summer School on “Soft Computing Paradigm and Machine Intelligence Techniques Organised at Department of CSE And IT, School of Technology, Assam Don Bosco University	07-07-2016 to 11-07-2016
2	Bobby Sharma	ISI-ADBU summer school on Soft Computing paradigm and machine intelligence techniques	07-07-2016 to 11-07-2016
3	Mriganka Gogoi	ISI-ADBU Summer School on soft computing paradigm and machine intelligence techniques	07-07-2016 to 11-07-2016.
4	Samar Jyoti Saikia	ISI-ADBU Summer School on “Soft Computing Paradigm and Machine Intelligence Techniques Organised at Department of CSE And IT, School of Technology, Assam Don Bosco University	07-07-2016 to 11-07-2016
5	Parismita A Kashyap	Basic Building Blocks of Microwave Engineering	18-07-2016 to 12-08-2016
6	Papul Changmai	WORKSHOP ON ARDUINO AND RASPBERRY PI (CWAR) - 2016	20-08-2016 to 21-08-2016
7	Kaustubh Bhattacharyya	One week ISTE STTP for Coordinators on "CMOS, Mixed Signal and Radio Frequency VLSI Design" Conducted by Indian Institute of Technology Kharagpur under the National Mission on Education through ICT (MHRD).	19-09-2016 to 23-09-2016.
8	Dr Yumnam Lokeshwor Singh	Workshop on Hands on Training in Basic Techniques in Genomics and Proteomics at Department of Biotechnology, St. Edmund’s College, Shillong – travel to attend workshop	20-09-2016 to 26-09-2016

9	Shiny C Thomas	Refresher course: Winter School Training on " The hi-tech micropropagation techniques for biomass and metabolite production"	22-11-2016 to 12-12-2016
10	Dr Yumnam Lokeshwor Singh	Science Academies' Refresher course on "Immunology Laboratory Techniques using Fish model" at Vels University, Chennai	5-12-2016 to 17-12-2016
11	Uzzal Sharma	UGC Sponsored Refresher Course on Environmental Science	08-12-2016 to 28-12-2016
12	Sagarika Kotoky	Global Initiative of Academic Networks (GIAN) Course at NIT Silchar on 'Conquest of Knowledge: The British in India', Ministry of Human Resource Development, Govt. of India	16-12-2016 to 22-12-2016
13	Mriganka Gogoi	International Conference on Advances on Nano Technology, 2017 (iCAN-2017), School of Technology (Don Bosco College of Engineering and Technology), Assam Don Bosco University, Guwahati, Assam	09-01-2017 to 13-01-2017.
14	Mriganka Gogoi	International Conference on Advances on Nano Technology, 2017 (iCAN-2017), School of Technology (Don Bosco College of Engineering and Technology), Assam Don Bosco University, Guwahati, Assam	09-01-2017 to 13-01-2017.
15	Kaustubh Bhattacharyya	Professional development program on "MENTORING AND COUNSELLING...key to holistic education" organized by Assam Don Bosco University.	17-02-2017 to 18-02-2017
16	Pallav Gogoi	Advances in Renewable energy and its applications	07-03-2016 to 11-03-2016
17	Karen Das	Advances in Renewable energy and its applications	07-03-2016 to 11-03-2016
18	Mriganka Gogoi	Pedagogy for online and Blended Teaching-Learning Process	14-09-2017 to 12-10-2017
19	Gypsy Nandi	Orientation by UGC-HRDC, GU	01-12-2017 to 31-12-2017
20	Ramesh Sharma	40 Day Personality Development Workshop	02-01-2017 to 15-02-2017
21	Karen Das	International Conference on Advances in Nanotechnology2017	09-01-2017 to 13-01-2017
22	Subra Mukherjee	Outcome based Pedagogic Principles for Effective Teaching	23-01-2017 to 17-03-2017
23	Subra Mukherjee	Emotional Intelligence	23-01-2017 to 17-02-2017
24	Samar Jyoti Saikia	Two week ISTE STTP on CMOS, Mixed Signal and Radio Frequency VLSI Design conducted by IIT Kharagpur	30-01-2017 to 04-02-2017

		organised at Don Bosco College of Engineering & Technology, Guwahati	
25	Babita Maisnam	Two week ISTE STTP on "CMOS, Mixed Signal and Radio Frequency VLSI Design" Organized by IIT Kharagpur. This workshop was held under the National Mission on Education through ICT (MHRD).	30-01-2017 to 04-02-2017
26	Karen Das	Two week ISTE STTP on "CMOS, Mixed Signal and Radio Frequency VLSI Design" Organized by IIT Kharagpur. This workshop was held under the National Mission on Education through ICT (MHRD).	30-01-2017 to 04-02-2017
27	Mriganka Gogoi	CMOS, Mixed Signal and Radio Frequency VLSI Design	30-01-2017 to 04-02-2017
28	Hemashree Bordoloi	CMOS, Mixed Signal and Radio Frequency VLSI Design	30-01-2017 to 04-02-2017
29	Monjib Mochahari	Workshop on Writing Skill Development organised by Dibrugarh University	14-03-2017 to 25-03-2017
30	Jhimli Kumari Das	Short Term Training Program on "Advance Process Control & Instrumentation System"	27-03-2017 to 31-03-2017
31	Monjib Mochahari	Workshop on Broadcast Journalism organised by Dibrugarh University	27-03-2017 to 04-04-2017
32	Bobby Sharma	Android Development Fundamentals	17-05-2017 to 21-05-2017
33	Karen Das	Two weeks "Short Term Course on Electronics Systems Design & Analysis (STCESDA 2017)", organized by the Department of ECE, School of Technology, Assam Don Bosco University in collaboration with Scientech Technologies Pvt. Ltd.	06-06-2017 to 17-06-2017
34	Smriti Dey	Two week iste sttp on electric power system	12-06-2017 to 15-07-2017
35	Rup Kumar Deka	Internet of Things (IOT) Five Days Advanced Training Program, CDAC, Tezpur University	12-06-2017 to 16-07-2017