Assam down town University

ANNUAL REPORT 2019-2020

Assam down town University

Established vide The Assam Act No. VIII of 2010, Gazette No.LGL9/2010/II

ASSAM
down town
UNIVERSITY

Contents

CHANCELLOR'S MESSAGE

It is a great pleasure to witness the growth and development of Assam down town University during of the last nine years in the field of academics, research, innovations and outreach. The university is enriched by the rich diversity of students' body from different states of India and our neighboring countries.

I heartily commend the dedication, diligence and devotion of the teachers, students, researchers, administrator and supporting staff in raising the university to its present state.

I also sincerely wish that all active stakeholders of AdtU will continue with same quantum of effort so that the University excels in its future venture to emerge as a globally recognized university from the north eastern region of India.

I wish the AdtU fraternity success in every endeavor.

Dr. N.N. Dutta
Chancellor
Assam down town University

VICE CHANCELLOR'S MESSAGE

As we continue to advance in our journey of academic excellence, research and innovation, I am filled with immense pride and gratitude for the collective efforts of our University community. The Assam down town University is a sacred place where young minds dream and work hard to make dream come true using the ambience of right education created for this purpose. We not only impart knowledge but also provide a conducive environment for holistic growth, critical thinking, and global awareness.

The University moved beyond the traditional boundaries of imparting knowledge by incorporating skills and experience through experiential learning and promotion of human values. Our students are the heart of the University and their achievements, curiosity, and resilience continue to inspire us every day. We are proud of the progress they have made and are confident that they will continue to bring honor to our University in the years to come.

As we look to the future, let all stakeholders work together to make Assam down town University not just a center of academic excellence, but also a hub of innovation, creativity, and social responsibility. Together, we can shape the next generation of leaders, thinkers, and professionals who will make a difference in the world.

I hope that the dedication will continue and achieve the shared vision and I look forward to witness the continued success and growth of our University.

Prof. (Dr.) Amarjyoti Choudhury

Vice Chancellor

Assam down town University

MESSAGE FROM THE DEAN OF STUDIES

I feel proud to be the part of the Assam down town University, Guwahati, one of the best placement driven University in north east India which has made commendable progress in its academics, research and innovation fronts. The growth and development of the University is because of dedicated efforts of the teaching, non-teaching and supporting staff.

A total of 40 programs including Bachelor's, Master's and Ph.D., were offered during the academic year. I am proud to highlight that the courses such as Professional Development and Human Values were integrated in the curriculum for enhancing students' skills and their moral values. These efforts are pointer to the fact that the university is pioneering to look beyond the traditional system of teaching and learning and by further implementing experiential learning for creating qualified professionals.

B Dutta

Prof. (Dr.) Bandana Dutta

Dean of Studies

Assam down town University

Vision, Mission, Core Values and Moto

Vision

To become a Globally Recognized University from North Eastern Region of India, Dedicated to the Holistic Development of Students and Making Society Better

Missions

- **Creation of curricula that address the local, regional, national, and international needs of graduates, providing them with diverse and well-rounded education.**
- **Build a diverse student body from various socio-economic backgrounds, provide exceptional value-based education, and foster holistic personal development, strong academic careers, and confidence.**
- **Achieve high placement success by offering students skill-based, innovative education and strong industry connections.**
- **Become the premier destination of young people, desirous of becoming future professional leaders through multidisciplinary learning and serving society better.**
- **Create a highly inspiring intellectual environment for exceptional learners, empowering them to aspire to join internationally acclaimed institutions and contribute to global efforts in addressing critical issues, such as sustainable development, climate mitigation and fostering a conflict-free global society.**
- **To be renowned for creating new knowledge through high quality interdisciplinary research for betterment of society.**
- **Become a key hub for the growth and excellence of AdtU's stakeholders including educators, researchers and innovators**
- **Adapt to the evolving needs and changing realities of our students and community by incorporating national and global perspectives, while ensuring our actions are in harmony with our foundational values and objectives of serving the community.**

AdtU operates with the following Core Values

- **Human Dignity, Empathy and Humility**
- **Academic Integrity, Excellence and Leadership**
- **Interdisciplinary Approaches, Excel Research, Innovation and Entrepreneurship**
- **Diversity, Inclusivity, and Social Responsibility**
- **Collective, Co-ordinated and Co-operative Endeavors**

Our Motto

Excellence and Integrity are Virtues in Every Action

Foreword

Assam down town University is UGC 12B, NAAC accreditated and ISO-9001: 2015 certified institution located at the southern bank majestic river Brahmaputra in Panikhaiti, Guwahati, Assam. The University covers around 50 acres of land benefiting more than 8000 students offering more than 30 programs in the field of allied Health, Nursing, Science, Pharmaceutical Science, Engineering and Technology, Management and Social Sciences.

The building of the University were constructed keeping intact the green ecosystem so as to provide a beautiful serene environment because of hilly terrain, and lush vegetation, an ideal setting for educational excellence. Celebrating its ninth year, the University was established through the vision and tireless efforts of the down town Charity Trust. The Trust's primary goal is to foster a better society by nurturing leaders, knowledgeable professionals, researchers, skilled practitioners, and entrepreneurs.

Established in 2010 with the approval of the Government of Assam under the Assam Private University Act, 2007 (vide No. LGL.9/2010/11), the University was founded under the leadership of Dr. N. N. Dutta, a distinguished physician and the Trust's chairman.

This report provides a comprehensive overview of the university's activities during the academic year 2019-20, covering academics, research, innovations, consultancy, achievements, placements, and more. It reflects on the University's performance, reviews past progress, and outlines plans for future improvements. The document also highlights the student support system, publications, patents, infrastructure developments, and outreach efforts that benefited students of India and from neighboring countries such as Nepal, Bhutan, and Bangladesh. It also acknowledges the contributions of students, faculty, administrators, and staff who have brought pride to the university.

It showcases success stories of academics, placements, sports, and cultural endeavors. This document includes detailed reports from all university sections, including the Faculty of Studies, Administration, Admission, Research, Examinations etc. In conclusion exhaustive description of the university's performance during the 2019-20 academic year, and plans for future development. Readers are encouraged to critically review the report and offer suggestions to help the university achieve excellence and distinguish itself globally.

Summary

By the end of academic year 2019-20, the university had significantly expanded its infrastructure, constructing many multi-story buildings while preserving the campus's lush greenery and natural ecosystem. These new buildings included:

Classrooms: Designed to provide a modern learning environment.
Laboratories: Equipped with advanced facilities for experiments.
Seminar Rooms: Spaces for academic discussions and presentations.
Staff Rooms: Dedicated areas for faculty and staff.
Administrative Offices: Essential for the university's operational needs.
Cafeteria: Providing dining options for students and staff.
Halls: A unique addition to support cultural and educational activities.

In addition, the University initiated preparation of a playground of international standards for outdoor sports such as football and cricket, with the aim of completing by the end of the academic session. Furthermore, an amphitheater was also under construction. This amphitheater, will have a capacity to accommodate around 3,000 audience, which is set to be a distinctive feature of the campus. The university's commitment to providing state-of-the-art infrastructure showed its dedication to fostering a comprehensive academic, research, co-curricular, and extracurricular environment.

The university began admitting more than 900 students and appointing more than 100 teachers, offering more than 30 academic programs. This growth was reflected in the academic performance of its students, with a notable 91.41% pass of final semester students. Many of these graduates secured positions in well-regarded companies, while others pursued advanced degrees at the University or enrolled in other prestigious institutions. To achieve the success, the University facilitate with knowledge database called the HNDB (Hari Narayan Dutta Baruah) Central Library, initially modest in its collection, evolving to about 500 titles by 2019-20 and hosted a comprehensive range of resources of research journals (both hardbound and electronic), e-books, and e-journals, supporting the academic and research needs of the university community.

To further strengthen its research capabilities, the university initiated Ph.D. programs, provided seed grants for research projects, and sought extramural funding from both government and non-governmental agencies. During the academic year, the University awarded 04 Ph.D. degree, launched seed-funded projects, and initiated research funded by external grants. Additionally, the university fostered academic and research collaborations by signing Memorandum of Understanding (MoUs) with various research and academic institutions, enhancing its research and academic initiatives.

The University at a glance

1.	Vice Chancellor	:	**Prof. (Dr.) Amarjyoti Choudhury**
2.	Institutional Status	:	**Private University**
3.	UGC	:	**2f, 12B**
4.	NAAC	:	**B, 2.23 CGPA**
5.	Others	:	**ISO 1900-2015**
6.	Quality Enhancement and Outcomes		
a.	Executive development/ Management Development through FDP/Workshop/training programs	:	173
b.	Number of Professional Development (PD)/ Administrative Training (AT) Programs (P) organized by the University for Teaching and non Teaching/ Technical Staff	:	21 PDP and 2 ATP
c.	Teachers provided with financial support to attend Conference/ Workshops/ and towards membership fee of Professional bodies.	:	176
d.	To Design, implement of Quality Management System	:	Retained the certificate of ISO 9001:2015 Quality Management System(QMS)
e.	Fostering a culture of innovation and entrepreneurship	:	One Entrepreneur Developed
	Faculty Effectiveness Program (20.9.2019)	:	25 Participants
	2nd Management Review Meeting on Implementation of ISO 9001: 2015 (23.10.2019)	:	12 Participants
	2nd Management Review Meeting on Implementation of ISO 9001: 2015 (06.12.2019)	:	11 Participants
	Quality Management System Certification Surveillance Audit I (09.01.2020 to 11.01.2020)	:	239 Participants
	Awareness Program on Industry 4.0 (26.02.2020)	:	26 Participants
7.	Number of programmes	:	40
8.	Number of Courses	:	1352
9.	Students Admitted	:	1209
10.	Number of Ph.D. Scholar Awarded	:	04
11.	Student Passed Final Examination	:	91.41%
12.	Full Time Teacher	:	253
13.	Number of Seed Project	:	06
14.	Number of extramural funded project	:	11 (Students Science Projects)

The Academics

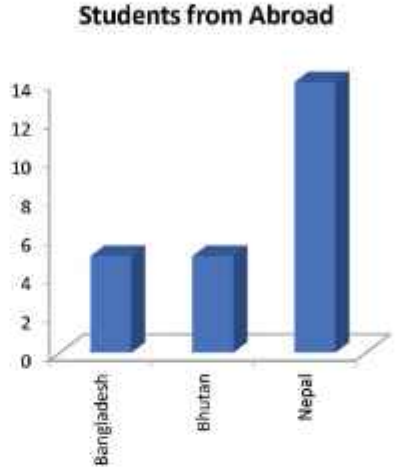
To ensure efficient administration and effective management, Assam down town University has decentralized its activities across seven distinct Faculties of Studies:

Faculty of Science
Faculty of Paramedical Sciences
Faculty of Pharmaceutical Science
Faculty of Engineering and Technology
Faculty of Commerce and Management
Faculty of Humanities and Social Sciences
Faculty of Nursing

During the academic year, the university offered a total of **34** programs, enrolling **1,209** new students. The teaching staff comprised **280** faculty members who employed progressive evaluation methods to enhance the academic experience. The academic year commenced in August, 2018 and concluded in July, 2019. The teaching and learning processes were supported by Information and Communication Technology (ICT) facilities, facilitating a modern and interactive educational environment.

The University's commitment to comprehensive education was reflected in accommodation of the diverse students, which included international students from neighboring countries such as Nepal, Bangladesh, and Bhutan, with numbers ranging from **4** to **22** per country. Additionally, over 500 students from various Indian states including Andhra Pradesh, Arunachal Pradesh, Bihar, Gujarat, Jammu & Kashmir, Manipur, Meghalaya, Mizoram, Nagaland, Punjab, Sikkim, Tamil Nadu, Tripura, Uttarakhand, and West Bengal joined the university, seeking to advance their careers through the programs offered.

The high demand for programs in the Faculty of Studies highlights the University's role in addressing the educational needs. The diverse geographical representation of the student body showed the University's appeal and the relevance of its academic offerings across different regions and countries.



The Curriculum, Syllabi and Courses

The University has adhered to norms and regulations prescribed by various statutory bodies, such as the University Grants Commission (UGC), All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), and Indian Nursing Council (INC), in designing and developing its curriculum and syllabi. This adherence ensures that the programs offered are in line with national standards and quality.

Curriculum Design and Development Program Learning Objectives (PLO), Program Outcomes (PO), and Course Outcomes (CO):

The curriculum and syllabi were crafted with well-defined Program Learning Objectives (PLO), Program Outcomes (PO), and Course Outcomes (CO). These elements outlined what students are expected to learn and achieve on successful completion of their programs with value addition. These exercise helped in aligning and framing the line of educational experiences with desired graduate competencies.

Focus on Holistic Development Emphasis on All-Round Growth:

The curriculum was designed to ensure the holistic development of students, preparing them to serve society effectively. The inclusion of ability enhancement, skill enhancement, co-curricular, and extra-curricular activities including generic electives was one of the colorful part of the curriculum. This aimed to cultivate leaders and well-wishers who are not only knowledgeable but also socially responsible including body and mind fit.

Integration of Local, Regional, National, and Global Issues:

The syllabi incorporated problems and issues at various levels like local, regional, national, and global which enabled the students to analyze, evaluate, and develop solutions and contribute towards the social development.

Examples:

- Students of Faculty of Engineering and Science assess ecosystems for soil and wildlife conservation, fostering environmental stewardship.
- Physiotherapy students evaluated health issues in the OPD (Outpatient Department), of the patients from nearby places gaining insights into regional health issues.
- Students of Faculty of Pharmaceutical Science focused on local biodiversity to discover potential new medicinal molecules.
- Management, Humanities and Social Sciences students addressed the socio-economic issues of the nearby villages, linking academic learning with real-world challenges.

Mandatory Courses and Integrative Learning:

Environmental Science: Required for all undergraduate programs to raise awareness about local environmental issues and encourage solutions.

Human Values, Ethics, and Bioethics: Included across programs to instill ethical principles and integrity.

Intellectual Property Rights (IPR): Part of the curriculum to enhance understanding of legal aspects relevant to various fields.

The Curriculum, Syllabi and Courses

New Program Introductions and Curriculum Updates

The syllabi for new programs were meticulously developed to include relevant regional, national, and global issues, in disciplinary perspectives.

The University introduced several new programs in this academic year, including BA (Performing Arts), Bachelor of Hotel Management & Catering Technology, B.Sc. Nursing, M. Pharm (Pharmacology), M.Sc. (Clinical Psychology), and Post Basic Nursing. These programs aimed to expand human resources in these fields and address specific needs of the society and industry.

Recognizing that curriculum needs to evolve with industry and societal changes, the University carried periodic revisions during onset of the academic year ensuring that the course content remains relevant and up-to-date and therefore included:

Skill Development and Employability: Emphasis was placed on including both foundational and applied content in programs to enhance employability by developing **Personality and Interview Skills through Trainings** for Preparing students for the job market. **Industry, Research Institution visits** were conducted for providing practical exposure and insights into various fields. **Skill Enhancement** courses like professional, work, laboratory, presentation skills etc., were introduced to focus on experiential learning and entrepreneurship.

Introduction of Generic Elective Courses for Broadening Knowledge Base:

Courses such as Public Health and Hygiene, Basics of Nutrition, Research Methodology, Concepts of Organic Cultivation, Entrepreneurship & New Venture Creation, and others were introduced. These courses aimed to provide students with knowledge beyond their core courses, enhancing their overall educational experience.

Future Curriculum Framework

Learning, Research, and Social Perspectives:

The University initiated a new curriculum framework for implementation in subsequent academic years, categorizing the curriculum into three main perspectives:

Learning: Focus on enhancing educational methodologies and content.

Research: Emphasis on integrating research activities within the curriculum.

Social: Addressing societal needs and ensuring students are prepared to contribute meaningfully to the society.
The framework is being partially implemented, in the academic year with a view of full integration in the future academic offers.

The Curriculum, Syllabi and Courses

Learning Perspective:

The Learning Perspective of the University's curriculum focused on integrating foundational knowledge with practical and creative application which aimed to provide a comprehensive educational experience that fosters both intellectual and professional growth. Here's a detailed breakdown of how this perspective was implemented:

Core Components
Interactive Theory and Practical Classes:

Theory Classes: Structured to cover essential concepts and theories pertinent to each discipline.
Practical Classes: Designed to apply theoretical knowledge in real-world scenarios, enhancing hands-on experience and understanding.

Class Frequency and Credit Points:

The number of classes were aligned with UGC guidelines based on credit points, ensuring a structured and balanced approach to learning.

Creative and Problem-Solving Assignments:

Assignments: Included tasks that encourage innovative thinking and problem-solving. These assignments helped the students to apply their knowledge creatively and develop critical thinking skills.

Group Discussions and Research Projects:

Group Discussions: Fostered collaborative learning and enhanced communication skills.
Research Projects: The students across the programs were engaged in detailed investigation on selected topics, promoting analytical and evaluative skills, finally reporting in the form of dissertation.

Personality and Interview Skill Development:

Training Programs: Incorporate sessions on personality development and interview preparation, aimed at enhancing professional demeanor and employability.

Outcomes
Students build confidence and refine their professional skills, such as communication, teamwork, and problem-solving abilities. Enhanced through diverse learning activities and critical thinking exercises. Which was encouraged through assignments and projects that require innovative solutions.

Research Perspective
The Research Perspective focused on cultivating students' analytical and evaluative skills to address specific issues relevant to the North Eastern region of India. Here's how this perspective is structured:

Core Components
Compulsory Dissertation:

Undergraduate and Postgraduate Research: Students were required to complete a dissertation involving experimental or survey research on topics pertinent to the North Eastern region.
Focus Areas: Included Food Science, Pharmaceuticals Science, Agricultural Science, Health Sciences, and Socio-Economic developments.

Internships and Field Work: All programs under Paramedical Sciences and Food Nutrition and Dietetics undergone Internships in reputable institutions, such as Hospitals and Pathological laboratories, with findings documented in reports.

Biological and Pharmaceutical Science involved research in bioprospecting, biofertilizers, bioreme-diation, plant and animal taxonomy, and molecular biology.

Regional Issues Focused:

Engineering and Technology: Research on local engineering challenges.
Management, Hospitality, and Tourism: Investigation into Socio-Economic development and enhancement of local products.
Humanities and Social Sciences: Surveyed and outreached the needy, for educational initiatives and donations to local communities.

Social Perspective

The Social Perspective emphasized community engagement and outreach, linking academic learning with societal contributions. Here's how this perspective is operationalized:

Outreach Programs:

Village Adoption: Programs were conducted in adopted villages, addressing various needs such as adult education, healthcare, and hospitality.

Health Camps and Donations:

Students active participation in health monitoring of nearby villagers

Meeting the Village Leader of Bonda

Teaching-Learning and Evaluation

ICT Integration: The university created a conducive learning environment by incorporating ICT enabled classrooms, a Digital Library, and an Online Learning System (OLS) to support teaching, and learning processes.

Evaluation Process: Students were evaluated through two in-semester examinations and one end-semester examination. The in-semester exams were conducted by individual programs to assess student progression by sorting slow and advance learners, while the end-semester exams were managed by the University Examination Department.

Support for Learners:

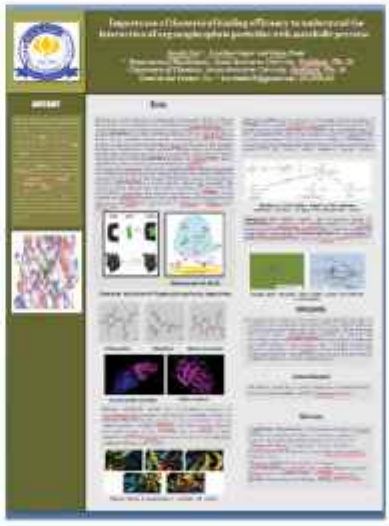
Slow Learners: Identified based on their performance in assessments, they were given additional support through tutorial or remedial classes. Mentorship was also provided to help them transition to the advanced learner category.

Advanced Learners: These students were encouraged to engage in scholarly activities, self-learning, and research. They participated in seminars, poster presentations, and assisted faculty members with research. Some advanced learner students even published their research articles with their mentors.

Student-Centric Pedagogy: The university focused on participative and experiential learning, ensuring that the Student-Faculty ratio was optimally maintained (25-30:1).

Faculty Recruitment and Recognition: The university ensured the recruitment of qualified and experienced faculty members, adhering to UGC regulations. Many faculty members received recognition at state, national, and international levels.

Overall, the University's approach was student-centric, and fostered both slow and advanced learners through a mix of ICT enabled tools, continuous assessment, and targeted support.



Research work of an Advance Learner

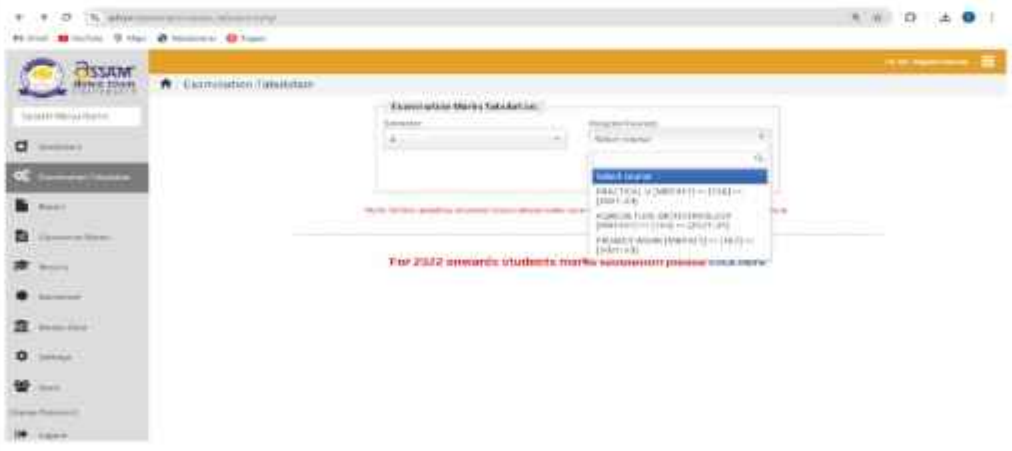
Examination Reforms

Reforms in Evaluation Methods

Assam down town University has implemented a comprehensive and transparent evaluation system guided by specific Examination Regulations for each program. The evaluation process included both continuous assessment and end-of-semester examinations, with a **40:60** ratio dividing in-semester performance and end-semester results. In-semester assessments involved mid-semester written examination (sessionals), presentations, quizzes, and assignments, while end-semester exams are typically descriptive and proctored.

For the faculties like Pharmaceutical Science and Nursing, evaluations strictly adhered to the regulations set by the Pharmaceutical Council of India (PCI) and Nursing Council of India (NCI), respectively. IT integration played a crucial role in managing the examination process, starting from student registration and course enrollment to the generation of hall tickets.

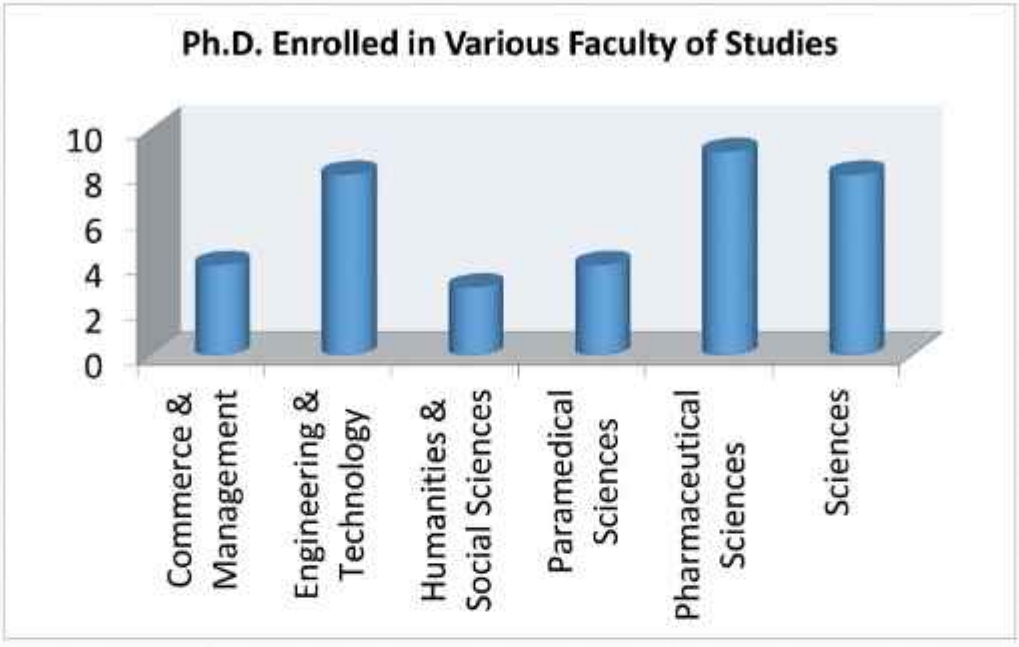
Students should have a clearance from the Finance department and their faculty Dean to download their admit cards via the ERP system. Exams were conducted offline, where papers were printed through the ERP system. After completing exams, answer sheets are submitted, graded by examiners, and marks are entered into the ERP system. The system automatically calculates the Semester Grade Point Average (SGPA) and generates marksheets and other certificates, including transfer, migration, and character certificates, all of which are managed and printed through the ERP system.

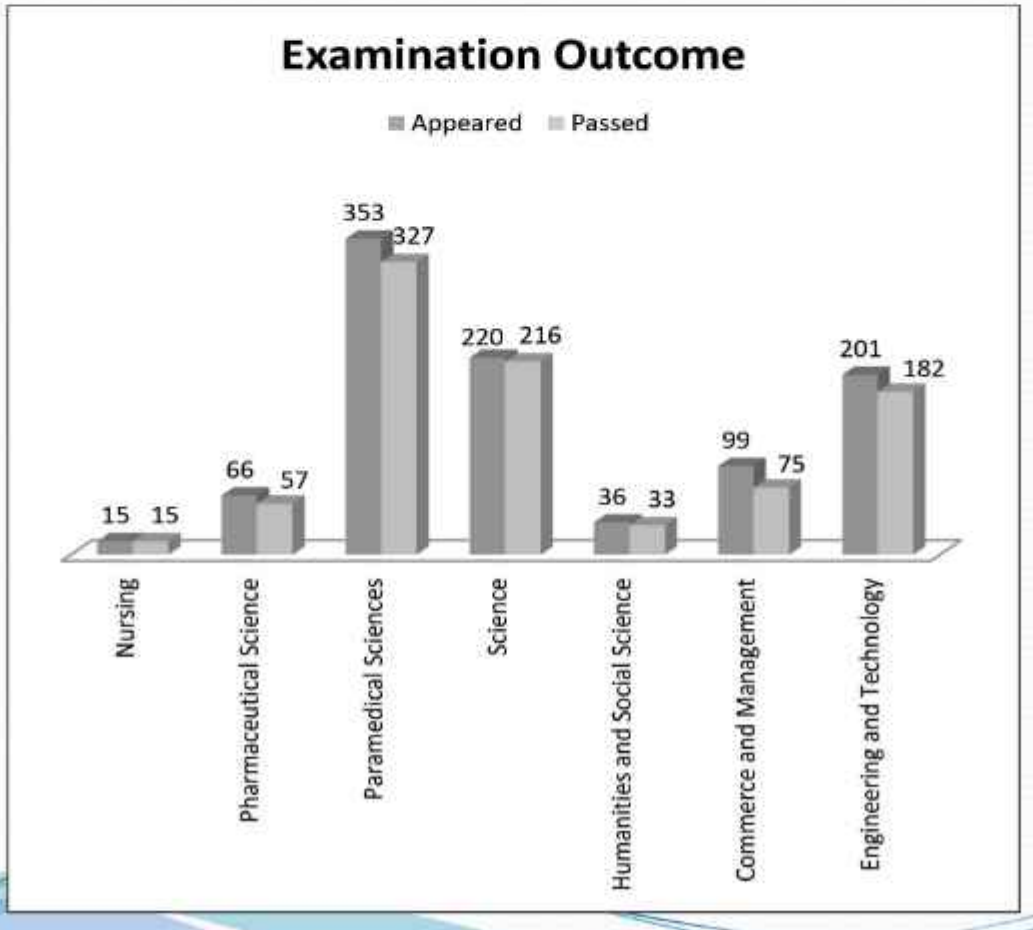


Admission into Various Programs

Faculty of Studies	Program Code	Program Name	Number of students admitted
Commerce Management Humanities and Social Sciences	BAPA	BA (Performing Arts)	0
	BPYO	BA (Psychology)	22
	BSWO	BA (Social Work)	17
	BASO	BA (Sociology)	10
	BTTO	BA (Tourism Management)	25
	BBAO	Bachelor of Business Administration	40
	BHMC	Bachelor of Hotel Management and Catering Technology	19
	MSWO	MA (Social Work)	35
	MBAO	Master of Business Administration	60
Engineering and Technology	BTCE	BTech (Civil Engineering)	52
	BCSO	BTech (Computer Science and Engineering)	22
	BTME	BTech (Mechanical Engineering)	10
Nursing	BSNO	BSc Nursing	57
	MSNC	MSc Nursing (Child Health Nursing)	3
	MSNM	MSc Nursing (Medical Surgical Nursing)	4
	MSNO	MSc Nursing (Obstetrics and Gynecological Nursing)	5
	PBBN	Post Basic BSc Nursing	33
Paramedical Sciences	BPTO	Bachelor of Physiotherapy	109
	BDIT	BSc (Bachelor of Dialysis Technology)	37
	BMLT	BSc (Bachelor of Medical Laboratory Technology)	97
	BOTT	BSc (Bachelor of Operation Theatre Technology)	33
	BOPT	BSc (Bachelor of Optometry)	58
	BRIT	BSc (Bachelor of Radiography and Advanced Imaging Technology)	109
	BEDM	BSc (Bachelor of Trauma, Emergency and Disaster Management)	36
	MPTO	Master of Physiotherapy	4
Pharmaceutical Science	BPHS	Bachelor of Pharmacy	99
	MPHP	MPharm (Pharmaceutics)	8
	MPHS	MPharm (Pharmacology)	4
Science	BSBT	BSc (Biotechnology)	24
	BSFD	BSc (Food Nutrition and Dietetics)	39
	BSMB	BSc (Microbiology)	39
	MSBT	MSc (Biotechnology)	14
	MSBO	MSc (Botany)	8
	MSCP	MSc (Clinical Psychology)	4
	MSFD	MSc (Food Nutrition and Dietetics)	20
	MECC	MSc (Master of Emergency and Critical Care)	13
	MMLT	MSc (Master of Medical Laboratory Technology)	4
	MSMB	MSc (Microbiology)	28
	MSZO	MSc (Zoology)	8
			1209

Ph.D. Enrollment and Examination Outcome





The Convocation

Convocation Overview:

The university celebrated its academic success by holding its Eighth convocation of the academic session.

The event was witnessed by several notable figures, including the Visitor of the University, the Honorable Governor of Assam, Prof. Jagdish Mukhi, and the Chancellor of the Assam down town University, Dr. N.N. Dutta.

The Hon'ble Vice Chancellor and the Registrar played significant roles in leading the event.

During the ceremony of the 7th Convocation for the Academic Session 2019-20, restrictions was imposed due to spreading of the COVID-19. Lockdown affected the function therefore it was conducted in a blended mode for limiting the physical contacts. Mostly the function was recorded in the presence of very limited members. The convocation addresses, and reports, were recorded and broadcasted.

The conferring of degrees was recorded, later broadcasted and distributed, to ensure that the event could still be experienced by those involved, despite the pandemic.

Ph.D. Recipients:

Only the Ph.D. degree was conferred during the year and the recipients were:

- Debojit Bhattacharya
- Banajeeta Sharma
- Abhijit Dutta
- Manashi Mazumdar

This event, like many others during the pandemic, adapted to the circumstances by leveraging virtual platforms while still maintaining the ceremonial aspects important to the academic community.

The Human Resource

The University meticulously selected its teaching staff, adhering to the prescribed criteria, rules, regulations, and formats set by the University Grants Commission (UGC). The selection process for recruitment involved forming an appropriate selection committee, which was led by the Vice Chancellor.

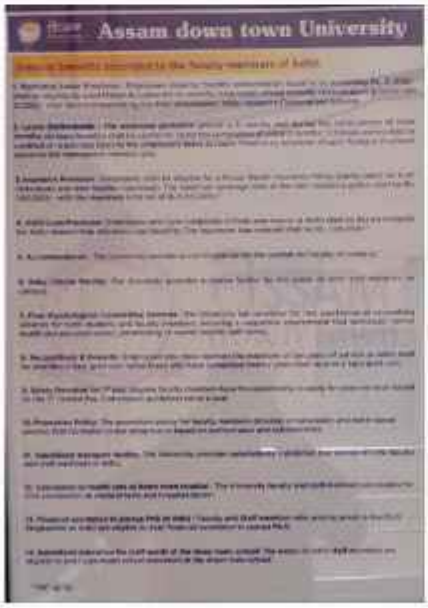
Faculty Composition (2019-20):

During the academic year 2019-20, the university's faculty comprised:
22 Professors
42 Associate Professors
216 Assistant Professors

The male-to-female ratio among the teaching staff was 1.15:1. This indicates a slightly higher number of male faculty members compared to female faculty members.

This information showed the university's commitment to maintaining a qualified and balanced teaching staff, ensuring that the recruitment process is aligned with established academic standards and regulations. The faculty members are incentivized based on their performance.

	Professor			Associate Professor			Assistant Professor		
	M	F	Total	M	F	Total	M	F	Total
Regular	18	3	21	18	8	36	74	61	135
Additional	1	0	1	4	2	6	24	57	81
	19	3	22	22	10	42	98	118	216


Assam down town University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Regulations for incentivization

The Faculty Development Initiatives

Faculty Development Programs:

The University is committed to the all-round development of its faculty members. To this end, it conducted various Faculty Development Programs (FDPs) that go beyond the traditional academic inputs.

Support for Research and Self-Learning:

The University has taken proactive steps to enhance the academic capabilities of its faculty. One such initiative is the provision of seed grants to faculty members. These grants were intended to encourage self-learning and the pursuit of research, enabling faculty to gain hands-on experience in their fields.

Faculty members are also financially supported to attend conferences, seminars, and academic meetings. This support fosters self-development and helped the faculty members to stay updated with the latest developments in their disciplines.

Incentives and Recognition:

To further motivate faculty members, the university has instituted a recognition system where those who excel in teaching are rewarded as the "Best Teacher of the Year." This incentive recognizes outstanding teaching performance and encouraged excellence in pedagogy.

Additionally, several faculty members have gained recognition and awards from various organizations, contributing to the University's reputation.

Achievements and Awards:

Dr. Saikat Sen received the Sushruta Best Young Scientist Award from the Bose Science Society. This award is a testament to Dr. Sen's contributions and achievements in the field of Science.

Ms. Trishna Saikia Baruah won the 1st Prize for Research Paper Presentation at the Physio Virtual Summit 2020. This achievement underscores her research capabilities and contributions to her field.

The University not only fostered the academic and professional growth of its faculty members through structured programs and financial support but also recognized and rewarded those excelled in teaching and research. The various awards and achievements by the faculty members, as well as the university's recognition in e-learning, reflected a strong commitment to academic excellence and innovation.

Support to the Faculty Members

The University in the Academic Session 2019-20 supported 172 Faculty Members for attending and presenting their research in the form of oral and poster. They are also supported for attending Faculty Development Programs. An amount of Rs. 10,56,000 was spent by the University for such activities. A list of the name of the faculty members and the programs attended by them is given below:

Faculty Members	FDP/Workshop/ PDP/ Seminars etc
Mr. Tridip Bharali	FDP on Artificial Retina using Thin Film Transistor Technology
Dr. Ananta M. Dutta	FDP on Chemical Sensor Technologiesfor Chemical Analysis and Materials Characterization
Ms. Namrata Das	FDP on DataEngineering using Elastic Stack
Ms. Ruma Devi	FDP on Electromechanical Human Machine Interaction
Dr. Tazmin Sultana	FDP on Engineering Mathematics and Its Applications
Ms. Meenu Das	FDP on Fluid Dynamics Computation
Dr. Banani Das	FDP on Full Stack Development
Prof. CA (Dr) M.S. Jadhav	FDP on Global Business Foundation Skills
Ms. Ritismita Devi	FDP on Green and Enivormrntal Analytical Chemistry
Dr. Nayan Talukdar	FDP on Recent Advances in Physics
Ms. ShilpiSudha Goswami	FDP on Role of Phonetics in Technical Presentation-A Study on Speaking Skills
Mr. Ankur Pan Saikia	FDP on Soft Computing Techniques and their Applications
Mr. Anjan Thakur	FDP on Translating Epics into English Langauge
Mr. Junaid Ahmed Choudhury	FDP on Underwater Piles Corrosion under Control
Dr. H.K Das	FDP on Wireless Sensor Based Motion Control of Mobile car Robot
Dr. Bhola Chourasia	International Seminar on Micro, Small and Medium Enterprises (MSME)
Ms. Abismrita Borthakur	International Workshop on Research methodology in Social Sciences
Mr. Prasenjit Chakraborty	National Conference on Emerging Paradigms in Higher Education: 2020 and Beyond
Ms. Anamika Bhuyan	National Seminar on Teaching Pedagogy and Psychology
Ms. Sangita Joshi	One day Workshop Cum hands on Training on Tally with GST (E-Way Billing)
Ms Lireni C Tungoe	Professional Development program on Faculty Colloquium
Ms. Rimjhim Baruah	Seminar on Uses of Tools and Techiques in Research
Mr. Manabjyoti Choudhury	Workshop on Data Security in Local Network using Distributed Firewalls
Ms. Supritee Das	Workshop on Digital Marketing

Research

The research policy of Assam down town University was crafted to cultivate a robust research culture among its faculty members and students. This policy is strategically designed to not only foster an environment of inquiry and innovation but also to enhance the professional skills and capabilities of its academic staff.

Objectives of the Policy:

Promotion of Research Culture: The research policy primarily aimed to generate and support a research-oriented mindset among both faculty members and students. This played a crucial role for driving innovation and ensuring that academic activities extend beyond conventional teaching into meaningful research.

Integration with Professional Development: By engaging in focused research, faculty members elevated their professional capabilities. The focus on teaching and research ensured that the academic staff remain at the forefront of their respective fields, contributing to both their personal growth and the University's academic reputation.

Research Areas: Assam down town University has initiated Ph.D. programs and provided seed grant that target critical and contemporary areas of study, reflecting the institution's commitment to address pressing global and local challenges. Some of the key research areas were:

- **Health and Diseases**
- **Molecular Marker Analysis relevant Cancer prevalence in the N.E. India**
- **Green Synthesis of Nanoparticles**
- **Functional Properties of Biomolecules from Medicinal Plants:**
- **Artificial Intelligence (AI)**
- **Electronic waste Management**
- **Organic Waste Management**

Infrastructure and Resources:

Facilitated with high-quality research instruments, the university has invested on new instruments such as HPLC, Lyophilizer, Microplate reader, high-tech microscopy etc. Developed facilities such as animal house and herbal garden providing the necessary infrastructural support for cutting-edge research activities.

Funded Research Projects:

In the academic year under discussion, in addition to the ongoing externally funded projects, the students of Faculty of Engineering and Technology, and Science received eleven funded projects from the Assam Science Technology and Environment Council (ASTEC) and the Department of Science & Technology (DST). These projects are notable for being student-driven, with topics chosen based on observations of local challenges.

Research

The Funded Projects:

Here are some of the innovative and impactful research projects undertaken by the students:

On-Road Parking and Traffic Stream Characteristics:

This project aimed to estimate the effects of on-road parking on traffic flow in various locations across Guwahati city, addressing a common urban issue.

Design and Fabrication of Electric Lawn Mower:

An initiative to design and build an electric lawn mower, contributing to sustainable landscaping practices.

Road Dust Cleaning Machine:

This project involved the designing and fabrication of a machine to clean road dust, which was a significant contributor to urban pollution.

Sustainable Housing:

A project focused on promoting sustainable housing, emphasizing a shift beyond net-zero and green homes, which could revolutionize eco-friendly construction practices.

Bio-Digester and Biogas Production:

This project involved designing and fabricating a bio-digester to produce biogas, utilizing a water displacement method, which may offer a sustainable energy solution.

Recovery of Hazardous Metals from PCBs:

A project focusing on the recovery of hazardous metals like lead (Pb) from the printed circuit boards (PCBs) of phones using a simple yet effective technique.

Permeable Concrete and Groundwater Recharge:

The design and application of permeable concrete for groundwater recharge, coupled with geotechnical monitoring using Arduino sensors, showcased innovation in environmental engineering.

Compact Paper Recycling Machine:

This project involved the designing and fabrication of a machine to recycle paper, promoting waste reduction and sustainable practices.

Research

Eco-friendly Packaging Materials:

A research project focusing on the production of eco-friendly packaging materials and tableware, addressing the global issue of plastic pollution.

Antimicrobial Agents for Urinary Tract Infections (UTIs):

This project examined the effects of skill-based proteins on bacteria found in UTIs and explores their potential as antimicrobial agents, as well as their regenerative and preventive properties.

Assessment of Water Pollution:

This project assessed water pollution near landfill sites in Guwahati city using remote sensing and field data, which is crucial for environmental monitoring and public health.

The research initiatives at Assam down town University reflected a strong commitment in addressing real-world problems through innovative research. By supporting both faculty and students in these endeavours, the university not only advanced contributing towards knowledge but also contributed to societal needs. The university's strategy of integrating research with teaching responsibilities, coupled with funding and infrastructural support, positioned it as a key player in addressing both local and global challenges.

Research Highlights

The project titled "**Foldscope: A Tool for Evaluation of Genotoxic Effect of Food Preservatives**" was funded by the Department of Biotechnology (DBT), Government of India, vide order number BT/IN/Indo-US/Foldscope/39/2017. The project was started on March 20, 2018, and was successfully completed by September 2019. The primary focus of the study was to evaluate the utility of Foldscope - a low-cost, portable microscope in studying the genotoxic effects of food preservatives and other substances.

Key Objectives and Achievements of the Project:

The project aimed to assess the genotoxicity (the ability of a substance to damage genetic information in cells) of food preservatives and other chemicals. ***Allium cepa*** (onion) cells was used as a model. The effectiveness of Foldscope in detecting chromosomal aberrations—deviations from normal chromosomal structure was a critical part of the research.

Chromatic Aberration Study:

The research focused on the comparative study of chromatic aberration, a distortion that results in the failure of a lens to focus all colors to the same convergence point induced by various substances. The substances tested included standard pesticides like Malathion and Chlorpyrifos, food preservatives such as Butylated Hydroxytoluene (BHT), Butylated Hydroxyanisole (BHA), Propyl Gallate, Monosodium Glutamate (MSG), and Sodium Benzoate, as well as extracts of ginger, garlic, clove, and others.

The results revealed that standard pesticides are mostly genotoxic, followed by residual pesticides. Food preservatives induced lesser chromatic aberration, indicating lower genotoxicity. Interestingly, the natural plant extracts did not induced chromatic aberrations, suggesting their non-toxic nature.

Genotoxicity in Fruits and Vegetables:

A significant portion of the research involved extracting residual pesticides from fruits and vegetables available in the local markets. It revealed that apples contained the highest levels of residual pesticides, followed by guava and pear.

Publication and Dissemination:

The findings of this research was published in the Journal of Biological Education, highlighting the educational value and practical applications of the Foldscope in biological studies. The outcomes of the study were also presented through seminars and conferences demonstrated that the Foldscope is a potential and valuable tool in research and education.

School Outreach Programs:

The research team conducted outreach programs in schools, educating students about microscopy and demonstrating how Foldscope can be used to observe cellular structures. These sessions were aimed at increasing awareness and interest in Life Sciences among students, making sophisticated scientific concepts more accessible.

Research Highlights

Conclusion and Impact:

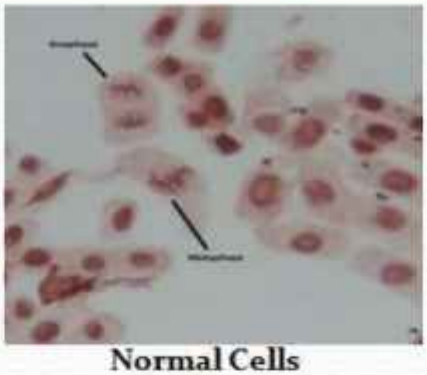
Educational Utility: The project concluded that Foldscope is an effective tool for conducting regular practical experiments in high school settings. Its affordability and ease of use make it ideal for introducing students to microscopy and basic biological experiments.

For undergraduate (UG) and postgraduate (PG) students in Life Sciences, Foldscope was found to be particularly useful for experiments related to mitosis, cytochemical staining of biomolecules, and chromatic aberration studies, including micronucleus formation using various staining techniques.

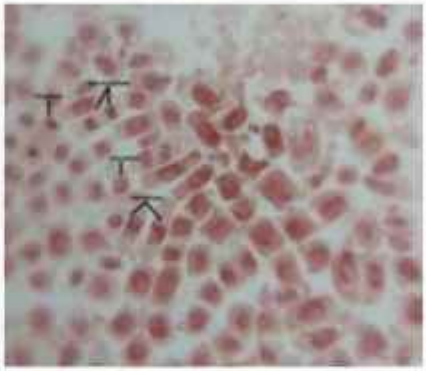
Scientific Contribution:

The project demonstrated that Foldscope could effectively be used in basic and applied research, particularly in settings where access to high-end microscopes is limited. This project not only contributed to the understanding of genotoxic effects of common substances but also showcased potentiality of the foldscope as a powerful educational tool.

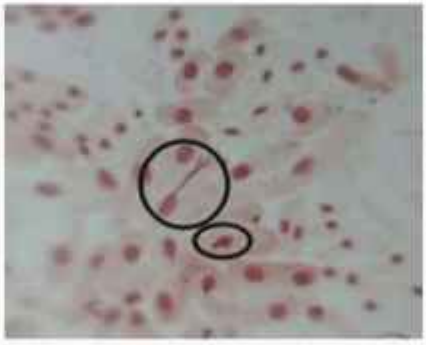
This project has had a lasting impact, particularly in the field of Life Sciences education, by making microscopy and genotoxicity studies more accessible to a broader audience, including students at various educational levels.



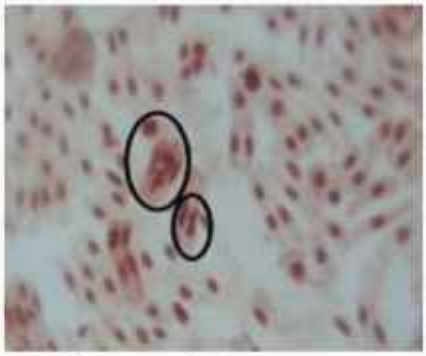
Normal Cells



Cells affected by Genotoxic substances



Normal Chromosome



Abberated Chromosome

Workshop on Foldscope




Research Highlights

Study on Bioactive Properties of Banana Extracts:

In recent years, the exploration of nutraceuticals food products that provide health and medical benefits, including the prevention and treatment of disease has gained significant momentum. In particular, the Pharmaceutical and food industries have been keen on identifying natural sources of bioactive compounds that can contribute to the prevention of chronic disorders. One such research initiative was the study titled "**Characterization of High-Value Phytochemicals of Anti-Diabetic and Immunomodulatory Properties in North Eastern Banana Varieties.**"

Key Objectives:

The primary objective of this research was to enumerate the bioactive properties of banana extracts in vivo by assessing their antioxidant potential and anti-cancer effects using animal models. The study was designed to investigate the potential of banana varieties from the North Eastern region of India as a source of therapeutic compounds that could be incorporated into nutraceutical products.

Rationale and Importance:

Increasing Demand for Functional Foods: With rapid urbanization, technological advancements, and economic growth in India, there has been a surge in demand for fortified and enriched foods. These foods are designed to provide health benefits beyond basic nutrition, particularly in preventing lifestyle related diseases such as diabetes, cardiovascular disorders, and cancer.

Nutraceutical Potential:

This study recognized that modifying foods to enhance their therapeutic properties is one of the most effective strategies to prevent chronic diseases. By increasing the availability of therapeutic foods rich in functional ingredients, such as those derived from bananas, it is possible to offer natural and accessible alternatives to conventional medicines.

Research Focus:

Antioxidant Potential: Antioxidants are crucial in protecting cells from damage caused by free radicals, which are unstable molecules that can cause oxidative stress, leading to chronic diseases. The study evaluated the antioxidant potential of banana extracts in vivo, providing insights into their effectiveness in mitigating oxidative stress-related disorders.

Anti-Cancer Properties: The research also focused on the anti-cancer properties of banana extracts. By using animal models, the study aimed to determine whether these extracts could inhibit cancer cell growth or even prevent the development of certain types of cancer, positioning banana-based nutraceuticals as a promising option in cancer prevention and therapy.

Research Highlights

Design and Fabrication of a Portable Friction Stir Welding Machine:

Another significant research initiative was led by Mr. Manash Jyoti Borah in collaboration with Assam Engineering College, Guwahati. This project was aimed at designing and fabricating a portable Friction Stir Welding (FSW) machine, with funding from ASTEC (Assam Science Technology and Environment Council), DST (Department of Science and Technology), Government of India.

Key Objectives:

Designing a Low-Cost Portable FSW Machine:

The objective was to develop a friction stir welding machine that is both portable and cost-effective. Friction stir welding is a solid-state joining process that is particularly useful in welding lightweight materials, such as aluminum alloys, which are commonly used in various industries, including automotive and aerospace.

Funding and Support:

The project was funded for a duration of two years, with a sanctioned amount of Rs. 4,04,800 to support its development. This financial backing highlights the importance of innovation in engineering, particularly in creating tools that can be used in a variety of industrial applications.

Impact of the Research:

Industrial Applications: The development of a portable friction stir welding machine has significant implications for industries that require efficient and high-quality welding solutions. By making the machine portable, it increases its usability in various field operations, reducing the need for large, immobile welding setups.

Collaboration and Innovation:

This project is an excellent example of collaboration between academic institutions and government bodies to foster innovation and solve practical problems faced by industries. The success of this project could lead to further advancements in welding technology and broader applications of friction stir welding.

These two research initiatives showed the commitment of Assam down town University to advancing knowledge and technology through focused research efforts that address real-world challenges in both the health and engineering sectors.

Seed Grant Projects

Besides the extramural funded project the University also incorporated provision for seed grants funds for initiating research. The list of the project funded by the University is tabulated below:

Designing an effective power transmission system for E-rickshaw (e-climber):
Recipient: Roktutpal Borah INR 2.5 Lakh

Designing an effective power transmission system for an E-rickshaw (e-climber) will involve careful consideration of motor selection, transmission design, battery management, and structural integration. The system must be capable of delivering high torque for climbing, while also being efficient, durable, and easy to maintain. Advanced control systems and thermal management are also crucial to ensure consistent performance in demanding conditions.

Empowerment of women through self help group , a study in Panikhaiti area in Assam
Recipient: Pranami Chakravorty INR 2 Lakh

The study will demonstrates that Self-Help Groups have been instrumental in empowering women in the Panikhaiti area of Assam. Through economic activities, access to credit, and enhanced social participation, SHGs have significantly improved the lives of women and their families. However, challenges remain, particularly in the areas of skill development, market access, and overcoming cultural constraints. Addressing these issues through targeted interventions can further enhance the effectiveness of SHGs as a tool for women's empowerment in rural Assam.

Green synthesis of economically viable metal - nanoparticle from old unused mobile circuit board
Recipient: Papia Dutta INR 2.2 Lakh

The green synthesis of economically viable metal nanoparticles from old, unused mobile circuit boards presents a promising approach to both waste management and the production of valuable materials. This process leverages the recovery of precious and base metals from electronic waste (e-waste) through environmentally friendly methods, reducing the environmental impact typically associated with conventional extraction processes.

A study of purification and characterization of proteases from Edible (D. Lablab) seeds and their efficacy against rice weevils
Recipient: Dr. Minakashi Bhattacharjee INR 2.5

The study on the purification and characterization of proteases from *Dolichos lablab* (edible) seeds will demonstrate their significant potential as bio-control agents against rice weevils (*Sitophilus oryzae*). The proteases will be isolated, and their biochemical properties will be characterized, revealing their stability and activity under conditions relevant to pest control applications.

Seed Grant Projects

Protein-Based salivary profiles as novel biomarkers for Oral Squamous Cell Carcinomas and its relation with raw betel nut chewer' population in Assam, India
Recipient: Lhakit Lepcha INR 2.3 Lakh

The exploration of Protein-Based salivary profiles as novel biomarkers for Oral Squamous Cell Carcinoma (OSCC) presents that will promise advancement in the early detection and monitoring of this aggressive cancer, particularly within the high-risk population of raw betel nut chewers in Assam, India.

Development of Novel composite therapeutic mixes having high calorie, antioxidant and antidiabetic activity
Recipient: Daisy Sarma INR 2.1 Lakh

The development of novel composite therapeutic mixes focused on creating formulations that combine high calorie content with potent antioxidant and antidiabetic properties. These therapeutic mixes will be designed to address multiple health needs.

Design and fabrication of a microcontroller based Electronic controller along with a 48 volt battery charger for E-Rickshaw
Recipient: Baharul Islam INR 2.4 Lakh

The design and fabrication of a microcontroller based Electronic controller, coupled with a 48-volt battery charger, aimed to enhance the efficiency and reliability of E-Rickshaws. The electronic controller, powered by a microcontroller, manages the operation of the E-Rickshaw by regulating speed, controlling motor functions, and ensuring smooth performance. The integrated 48-volt battery charger will be designed to efficiently recharge the E-Rickshaw's battery,

An empirical research based- laboratory module on cultivation and harvesting of microgreens and its scope for commercialization in the agri-food business industry
Recipient: Bhabajyoti Saikia INR 2.2

This empirical research-based laboratory module focused on the cultivation and harvesting of microgreens, exploring their potential for commercialization within the agri-food business industry. Microgreens, known for their rich nutritional profile and rapid growth cycle, are gaining popularity as a high-value crop. The module provides hands-on experience in optimizing growth conditions, understanding the nutrient content, and assessing yield quality. Additionally, it will examine the market potential and economic viability of microgreens, highlighting their scope for commercialization.

Seed Grant Projects

Structural Characterization and molecular docking of active compounds isolated from Amaranthusspinosus against jaundice
Recipient: Sangita Boro INR 2.5

This study focuses on the structural characterization and molecular docking of active compounds isolated from *Amaranthus spinosus* to assess their potential efficacy against jaundice. By isolating and identifying bioactive compounds from this plant, the research aimed to determine their chemical structures using advanced techniques such as spectroscopy.

Molecular typing of Methicillin resistant strains of staphylococcus aureus on the basis of seemee element to detect the prevalence of community acquired MRSA in hospitals.
Recipient: Shila Kumari Singh INR 2 Lakh

This research involves molecular typing of methicillin-resistant *Staphylococcus aureus* (MRSA) strains using SEEMEE (sequence-based element encoding multiple gene elements) to detect the prevalence of community-acquired MRSA (CA-MRSA) in hospitals. By analyzing the genetic sequences and identifying specific molecular markers, the study aimed to differentiate between hospital acquired and community acquired MRSA strains.

Determination of antidiabetic activity and characterization of functional polysaccharides extracted from hibiscus rosa- sinensislinn
Recipient: Dr. Suman Saha INR 2 Lakh

This study will investigate the antidiabetic activity and characterizes the functional polysaccharides extracted from *Hibiscus rosa-sinensis* Linn. The research focuses on evaluating the potential of these polysaccharides to regulate blood glucose levels and improve diabetes management. By isolating and characterizing the polysaccharides, the study aimed to identify their specific antidiabetic properties and mechanisms of action. The findings could contribute to the development of natural, plant-based treatments for diabetes, leveraging the bioactive components of *Hibiscus rosa-sinensis* to support better glycemic control.

Research Publications

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Alam, F., & Amin, R. (2020). Synthesis and Pharmacological Activity of Some Pyrazolone Derivatives. J. Pharm. Res. Int, 9, 46-55.

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Some, S., Bulut, O., Biswas, K., Kumar, A., Roy, A., Sen, I. K., ... & Ocsoy, I. (2019). Effect of feed supplementation with biosynthesized silver nanoparticles using leaf extract of Morus indica L. V1 on Bombyx mori L.(Lepidoptera: Bombycidae). Scientific reports, 9(1), 14839.

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Seth, G. S., Sarkar, S., & Hussain, S. M. (2014). Effects of Hall current, radiation and rotation on natural convection heat and mass transfer flow past a moving vertical plate. Ain Shams Engineering Journal, 5(2), 489-503.

Gohain, A., Sarma, R. K., Debnath, R., Saikia, J., Singh, B. P., Sarmah, R., & Saikia, R. (2019). Phylogenetic affiliation and antimicrobial effects of endophytic actinobacteria associated with medicinal plants: prevalence of polyketide synthase type II in antimicrobial strains. Folia microbiologica, 64, 481-496.

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Workshops/ Seminars/ FDP/ PDP Organized

Title	No. of Participants	Organizer	Start Date	End Date
Essentials for Good Research	70	Faculty of Engineering & Technology	25 May 2020	30 May 2020
How to Switch from Regular Classroom Teaching to Online Teaching More Effectively	89	Faculty of Engineering & Technology	14 May 2020	19 May 2020
Recent Trends and Applications of Machine Learning & Deep Learning	55	Faculty of Engineering and Technology	03 February 2020	7 February 2020
Effective and Instructive Research	50	Faculty of Paramedical Sciences	04 November 2019	8 November 2019
Machine Learning	35	Faculty of Engineering and Technology	01 October 2019	5 October 2019
Pharmaceutical Education & Research	40	Faculty of Pharmaceutical Science	19 August 2019	23 August 2019
Research Methodology	40	Faculty of Science	04 May 2020	8 May 2020
Advancements in Mechanical, Production & Civil Engineering and ICT in Teaching	40	Faculty of Engineering and Technology	02 December 2019	7 December 2019
Emerging Technologies in Robotics	50	Faculty of Engineering and Technology	09 September 2019	13 September 2019
Employability- An Essential Skill for Personality Development	40	IQAC	20 April 2020	24 April 2020
Challenges and Opportunities in Post covid-19 Pandemic Phase: Focusing Teaching, Research & Innovation	39	Faculty of Pharmaceutical Science	08 June 2020	15 June 2020
Pandemicity - The Social, Medical, Cognitive and Scholastic Challenges and Our Continued Existence	56	Faculty of Paramedical Sciences	13 July 2020	18 July 2020
Research Methodology- Resilience for Good Research	46	Faculty of Science	22 July 2020	29 July 2020

Knowledge base created

Name of the teacher	Title of the book/chapters published	ISBN/ISSN / Digital Object Identifier (doi) number of the proceeding	Name of the publisher
Saikat Sen, Raja Chakraborty	Herbal Medicine in India: Indigenous Knowledge, Practice, Innovation and its Value	978-981-13-7247-6	Springer Publication
Dr. Ananta Choudhury, Dr. Biplab Kumar Dey, Ms. Priyanka Goswami, Mr. Arabinda Changmai	Medicinal Plants of North-East, India for The Treatment and Management of Diabetes	10: 1648922066	Notion Press
Ruhul Amin, Biplab Kumar Dey, Faruk Alam	BEVACIZUMB: A Comprehensive treatment review on Ovarian and colorectal Cancer	ISBN-10: 1648928269; ISBN-13: 9781648928260	Notion Press
Atanu Bhattacharjee, Saikat Sen, Raja Chakraborty, Kunal Bhattacharya and Nongmaithem Randhoni Chanu	Phytoextracts and Their Secondary Metabolite with Anti-Diabetic Potential: A Review Focusing Traditional Medicinal Plants of Indian Subcontinent	978-93-89680-53-9	AkiNik Publications
Dr. Saiket Sen	Antioxidant Phytochemicals and Alzheimer Disease Current Understanding and Future Scope	978-0-367-33202-0	Taylor & Francis Group
Daisy Sharma, Radali Duarah and Manash Sarma	ResearchTrends in HorticultureSciences	ISBN: 978-93-90420-14-8	Akinik Publication
Manimugdha Medhi	Social Case Study on Behavioural Modification in Industries	978-81-944992-1-3	Suvvi Publications
Devabrata Saikia, Manabendra Mandal, Kuldeep Gupta, Ajay Kumar Manhar, Dhrubajyoti Nath, Payal Mazumder	Dark Fermentative Hydrogen Production from LignocelIulosic Agro-waste by a Newly Isolated Bacteria Staphylococcus Epidermidis B-6	978-981-15-4668-6	Springer Nature
Deep Prakash Parasar, Hridip Kumar Sarma	Traditional Fermentation by the Rabha-Hasong, Mishing and Karbi Communities of Assam and Prospects of Value Addition for Enhancement of Nutritional Qualities in Ethnic Foods	13:978-1-77188-798-4	Apple Academic Press
Debasish Das, Mokaddes Ali ahmed, Saikat Deb	Model for Estimating On-street Parking Demand in Urban CBD	978-3-030-42363-6	Springer, Cham
Deepali Borthakur	Indian Classical Literature	9388937228, 9789388937221	Concept Publishing Company Pvt. Limited
Faruk Alam, Biplab Kumar Dey	Cancer: The Tremor	ISBN-10: 6138910338; ISBN-13: 9786138910336	Scholars Press
Dr. Faruk Alam	Bamboo: The Medicinal Plant	978-035-9-57285-4	Lulu Press Inc.
Dr. Ananta Choudhury	Mucoadhesive microsphere as drug delivery system: A comprehensive theory and practical approach	13: 978-613-8-91303-9	Scholar Press
Ms Pranami Chakravorty, CA Anshuman Goswami	Corporate Social Responsibility and Human Resource Management	978-620-0-31329-4	LAMBART Academic Publishing
Saikat Sen, Pratap Kalita, Raja Chakraborty, H B Saikia, A Khalek, R Kalita	In vitro antioxidant and anti-hyperglycemic potential of banana flower (Musa balbisiana Colla).	9.78939E+12	EBH PUBLISHERS

Outreach and Extension

University's Community Outreach and Support Initiatives

Assam down town University, through its Extension and Outreach Club and the National Service Scheme (NSS) Unit, has made significant contributions to the well-being and development of nearby villages. This initiative is part of the University's commitment to social responsibility and community service, extending its resources and expertise to benefit the broader community.

Villages Supported:

The university focused its outreach efforts on several nearby villages, including:

- Bengenabari
- Bonda
- Chandrapur
- Panikhaiti
- Rajabari
- Tamulbari
- Thakurkuchi
- Hatishila
- Tintukura
- Garobasti

These villages were chosen based on their proximity to the university and the specific needs of their residents.

Key Support Activities:

Health Camps:

The university organized health camps to provide essential medical services to the villagers. These camps included general health check-ups, distribution of medicines, and specialized consultations, ensuring that even those with limited access to healthcare received necessary attention.

Cleanliness Drives:

To promote hygiene and sanitation, cleanliness drives were conducted in these villages. These activities not only involved cleaning public spaces but also educating villagers on the importance of maintaining a clean environment to prevent diseases.

Distribution of Essentials Commodities:

Recognizing the basic needs of the villagers, the university distributed essential commodities such as food, clothing, and other necessities. This support was particularly vital during challenging times, such as natural calamities or economic hardships.

Literacy Drives and Book Distribution:

To improve literacy rates and encourage education among children and adults, literacy drives were conducted. Books were distributed to help enhance the reading and learning capabilities of the village residents. These efforts were complemented by career counseling sessions to guide the youth in making informed decisions about their future.

Awareness Programs:

Several awareness programs were conducted on a variety of topics crucial to the well-being of the villagers:

Menstrual Health and Hygiene: Women and girls were educated on menstrual hygiene management to break the stigma and ensure they have access to necessary resources.

Water Conservation: Villagers were taught about the importance of conserving water, especially in regions where water scarcity is a concern.

Outreach and Extension

Physical Fitness: Programs focused on promoting physical health through exercises and activities, emphasizing the importance of staying active.

Drug Abuse and Rehabilitation: Awareness campaigns were held to educate the villagers, especially the youth, about the dangers of drug abuse and the available rehabilitation resources.

Environment Conservation: Initiatives were taken to educate the community on the importance of protecting the environment, with activities such as tree planting and waste management practices.

Individual Rights: Legal awareness programs were organized to inform villagers about their rights and how to protect them, empowering them to take control of their lives and communities.

Impact:

In the reporting year, the university organized 95 events across various dates, reaching a large number of villagers and positively impacting their lives. These efforts reflect the university's commitment to holistic development, not just within its academic community but also in the surrounding society.

This extensive outreach has fostered a strong bond between the University and the local communities, promoting a culture of mutual respect and cooperation. By addressing the fundamental needs of these villages and raising awareness on critical issues, Assam down town University has played a pivotal role in uplifting the quality of life in these areas.

List of Some of the Activities Organized in the year

1. Green Movement Camp in Bonda Village
2. Health Camping for the people of Rajabari Village
3. Awareness camp of diabetes mellitus for the People of Bengenabari Village
4. Blood donation Camp for the People of Chandrapur Village
5. Helping hand awareness camp for the People of Bonda Village
6. Awareness Building on Health & Hygiene among Youth of Bonda Village
7. Pharmacovigilance awareness camp among the Youth of Chandrapur Village
8. Awareness on COVID-19 among the Youth of Hatishila Village
9. Sensitization on Substance Abuse Prevention for the children of Panikhaiti Village
10. Cloth Distribution for the people of Rajabari Village
11. Creative Dance Therapy for the People of Chandrapur Village
12. Awareness on safe drinking water for the People of Sapaidong Village
13. Awareness Building on Good Hygeine Practice samon the Youth of Tintukura Vilage
14. Problem Identification Drive with the People of Thakurkuchi Village.
15. Awareness on Emotional Well being During Stressful Period for People of Rajabari Village
16. Village Mapping with the people of Rajabari Village Basti Village
17. Counseling program on mental health and stress management near Chandrapur Village
18. Awareness on Covid-19 for pregnancy and breast feeding at Garo basti Village
19. Safety first: Mask distribution drive at Narengi
20. Awareness on Covid-19 program at Panikhaiti Bazar
21. Tea plantation at Tintukura Village
22. Spread Care, not Germs: Distribution of Hand Sanitizer at Rajabari Village
23. Health screening camp at Bonda Village
24. Feeding hope: join the food distribution campaign at Panikhaiti Village
25. Awareness on production of vermicompost at Tamulbari Village
26. Awareness on cardiac prevention at Narengi
27. Health screening camp at Bonda Village
28. Health camp for woman at Birkuchi Village

Outreach and Extension

An Awareness program on Mental Health among the women of Tamulbari was conducted on 19-09-2019. The program was coordinated by Dr. Abhijit Dutta, benefiting local women Villagers. 64 students of Assam down town University along with 4 teachers participated.

An Anti Tobacco Awareness Program was conducted on 18-10-2019 for the people of Tintukura village. The program was coordinated by Mr. Rahul Nayak benefiting 20 Villagers. 61 students of Assam down town University along with 3 teachers participated.

The Green Movement Camp was conducted on 18-01-2020 in Bonda Village. The program was coordinated by Dr. Manash J Bora benefiting 21 Villagers. 58 students of Assam down town University along with 2 teachers participated.

Outreach and Extension

An Awareness on eye diseases for the people of Rajabari Village was conducted on 25-02-2020. The program was coordinated by Dr. Abhijit Dutta benefiting the Villagers. 55 students of Assam down town University along with 4 teachers participated.

Cloth donation drive was conducted on 10-02-2020, for the people of Tamulbari. The program was coordinated by Dr. Abhijit Dutta benefiting the Villagers. 40 students of Assam down town University along with 6 teachers participated.

An Awareness building on Forest Conservation was conducted on 12-03-2020, among the people of Garo Basti Village. The program was coordinated by Dr. Seema Sarma benefiting 30 Villagers. 105 students of Assam down town University along with 2 teachers participated.

Leadership and Governance

Dr. N. N. Dutta

Prof. J. Mukhi

Dr. A. Choudhury

GOVERNING BODY

i	Dr. N. N. Dutta	Chancellor, Chairperson
ii	Prof. Amarjyoti Choudhury	Vice Chancellor, Member
iii	Dr. N. Choudhury	Member
iv	Mr. Biswa Dutta	Member
v	Dr. Debashish Mitra	Member
vi	Dr. B. K. Gogoi	Member
vii	Ms. Mayurakshi Dutta	Member
viii	Ms. Gariasi Dutta	Member
ix	Mr. Joutishman Dutta	Special Invitee

The Board of Management

i.	Prof. (Dr.) Amarjyoti Choudhury	Chairperson
ii.	Ms. Mayurakshi Dutta	Member
iii.	Ms. Gariasi Dutta	Member
iv.	Prof. Bandana Dutta	Member
v.	Mr. Joutishman Dutta	Member
vi.	Prof. H.K.Das	Member
vii.	Dr. B. G. Unni	Member
viii.	Mr. Anjan Thakur	Member
ix.	Dr. Biplab Kumar Dey	Member
x.	Dr. Lakshmi Prasad Saikia	Member
xi.	Dr. Seema Sharma	Member
xii.	Dr. Arup Kalita	Member
xiii.	Dr. Rajeev Sarmah	Member
xiv.	Mrs. Manashi Sengupta	Member
xv.	Dr. Homeswar Goswami	Member
xvi.	Dr. Pratap Chandra Sarma	Member
xvii.	Dr. Diganta Sarmah	Member
xviii.	Mr. Debojit Bhattacharya	Member
xix.	Mr. Bichitra Bikash	Member Secretary

The Academic Council

i.	Prof. (Dr.) Amarjyoti Choudhury	Chairperson
ii.	Prof. Bandana Dutta	Member
iii.	Mr. Joutishman Dutta	Member
iv.	Prof. H.K.Das	Member
v.	Dr. B. G. Unni	Member
vi.	Mr. Anjan Thakur	Member
vii.	Dr. Biplab Kumar Dey	Member
viii.	Dr. Lakshmi Prasad Saikia	Member
ix.	Dr. Seema Sharma	Member
x.	Dr. Arup Kalita	Member
xi.	Dr. Rajeev Sarmah	Member
xii.	Mrs. Manashi Sengupta	Member
xiii.	Dr. Homeswar Goswami	Member
xiv.	Dr. Pratap Chandra Sarma	Member
xv.	Dr. Yamin Hassan	Member
xvi.	Mr. Bichitra Bikash	Member Secretary
xvii.	Mr. Debojit Bhattacharya	Member
xviii.	Mr. Indratanu Dey	Member
xix.	Prof. A.K. Goswami	External Member

Decentralized and Participatory Administration at the University

Assam down town University has adopted a decentralized and participatory administration model to ensure effective management and smooth functioning of the institution. This approach fosters a collaborative environment where decision-making is shared among various stakeholders, enhancing the quality and efficiency of governance.

Key Features of the Administrative Model:

Committee-Based Governance:

The university's day-to-day operations were managed through a committee based system. These committees were formed with representatives from various stakeholder groups, including faculty, administrative staff, and students. This inclusive approach ensured that decisions are made collectively, considering the perspectives of all those involved in the university's operations.

Effective Hierarchy Structure:

The administrative structure is well-defined, with clear roles and responsibilities at each level. This hierarchy facilitates smooth communication and efficient implementation of policies and decisions.

Periodic Reviews:

The functioning of the committees were regularly reviewed to identify areas for improvement. These reviews helped the university refine its processes and ensure that the system remains responsive to the evolving needs of the institution.

Example of Success:

One of the most notable achievements of this decentralized approach during the Academic Session 2019-20 was the successful implementation of the digitization of the teaching-learning process. The university leveraged ICT enabled tools, specifically the growing PRAN platform, to enhance the educational experience for both students and faculty.

PRAN (Platform for Research and Academic Needs):

PRAN is the university's primary tool for managing and delivering digital learning content. It supported various teaching and learning activities, making education more accessible and engaging, especially in the context of remote learning.

Library Resources and E-Portals:

The university's library played a significant role in supporting academic and research activities. It provided access to a wide range of academic and scholarly materials, including e-books, research journals, and other digital content.

These resources are accessible from anywhere via the university's e-portal, ensuring that students and faculty have continuous access to the necessary materials. Key e-resource portals included J-Gate.

Governing Bodies and Committees:

The university's governance is overseen by several key bodies:

Governing Body (GB):

The Governing Body is the highest decision making authority in the university, responsible for setting the strategic direction and ensuring the overall governance of the institution.

Academic Council (AC):

The Academic Council assists the GB by focusing on academic matters, including curriculum development, academic policies, and quality assurance.

Board of Management (BOM):

The Board of Management oversees the administration and management of the university's operations, ensuring that the institution runs smoothly and efficiently.

Functional Units and Committees:

In addition to the statutory bodies, the university has various functional units and committees that handle specific aspects of university operations. These include committees for research, student affairs, faculty development, infrastructure, and IT, among others.

The university adopts both top-down and bottom-up approaches in its decision making processes. This dual approach ensures that policies and decisions are informed by insights from all levels of the university, from senior management to students and staff on the ground.

1. Core Committee
2. Academic Coordination Committee
3. Faculty Advisory Committee
4. Departmental Advisory Committee
5. Board of Studies
6. University Research Council
7. Faculty Research Council
8. IQAC
9. External Project Review Committee
10. Internal Project Review Committee
11. Examination Committee
12. Student Affair & Student Committee
13. Placement Committee
14. Quality Circles
15. Anti Ragging Cell
16. Purchase Committee
17. Internal Compliance Committee
18. Legal Compliance Committee
19. Disciplinary Action Committee
20. Grievance Redressal Committee
21. Campus Development & Management Committee
22. Hostel Management Committee

Infrastructure

University Infrastructure Development

The University has undertaken significant infrastructure development tailored to the needs of students, with careful planning to ensure comprehensive growth. In the academic session of 2019-20, the university expanded its resources and facilities, which included:

Classrooms and Smart Classrooms:

The number of classrooms was increased to more than 150, and more smart classrooms that are equipped with advanced learning technologies.

Laboratories and Auditoriums:

The University added new laboratories, including Central Instrumentation Facility (CIF).
It also remodeled its auditoriums and conference halls to support various academic and extracurricular activities. The University also added new faculty rooms, cafeteria, and other facilities.

Library and Learning Resources:

The central library underwent a significant facelift, which included the addition of uninterrupted power supply. The library also enhanced its learning resources by increasing the availability of e-resources and establishing a video center. Facilities such as counseling rooms, language labs, and media labs, were initiated for development to support specialized learning needs. The library was equipped with high-speed internet access through a dedicated lease line, and various computational systems, high-end projectors, headphones, and laptops were made available to support audio-visual learning.

Recreational and Residential Facilities:

The campus features a well-equipped playground, gymnasium, swimming pool, and hostel accommodations for students.
Additional facilities such as Xerox services, a stationery shop, and a grocery store have been established to cater to the everyday needs of students and staff.

University Sports and Cultural Facilities

The University was well-equipped with a variety of sports and cultural facilities to ensure a well-rounded experience for its students and staff.

Cultural Facilities:

The University featured an Amphitheatre with a seating capacity of 3000, equipped with state-of-the-art facilities for hosting performances, events, and cultural activities, which is under construction.
Additional spaces include a Cinema Hall for screenings, a Board Room and Council Room for meetings, and a Seminar Hall for various academic and cultural activities.

Infrastructure

Sports Facilities:

Students and faculty have daily access to both indoor and outdoor sports facilities.

The indoor sports facilities include a well equipped gymnasium, a yoga centre for relaxation and wellness, an indoor stadium for various indoor games, and an indoor swimming pool with professional instructors to provide training and ensure safety.

The outdoor sports infrastructure includes a well maintained playground that supports outdoor games and sports such as cricket and football, providing ample space for practice and competition.

Maintenance and Management:

All these infrastructures are well maintained, ensuring that they are in top condition for regular use and various events.

The text describes various essential services and facilities available on the university campus, which contribute to the well-being and convenience of students, staff, and nearby communities. Here's an elaboration:

Campus Facilities and Services

The university campus was equipped with a variety of facilities aimed at ensuring the health, convenience, and overall well-being of its community members.

Health and Emergency Services:

The campus has a pharmacy that provides necessary medications and healthcare products. General and Physiotherapy OPD for Doctor Consultation Services were renovated for both general healthcare needs and emergency situations, ensuring that medical assistance is readily accessible.

Food Services:

The campus features three Canteens located at different blocks or specific locations, offering a variety of food options to cater to different tastes and preferences.

Shopping and Supplies:

The campus has a departmental store that offers a wide range of grocery and stationery items, making it convenient for students and staff to purchase everyday's essentials without leaving the campus.

Additionally, there is a bakery unit providing fresh baked goods, adding to the variety of food options available on campus.

Infrastructure

Animal and Environmental Care:

The campus includes an animal shelter, demonstrating the university's commitment to animal welfare.

Two ponds and a medicinal garden contribute to the campus's natural beauty and provide resources for learning and research.

Community and Sustainability Efforts:

Local farming is carried out within the campus by residents of nearby adopted villages, reflecting the university's engagement with the local community and its commitment to sustainable practices.

Major Facilities Under Construction
Play Ground
Gymnasium
Swimming Pool
Amphitheater
K-Block
One Hostel

Infrastructure

Commemorative Days, Events and Festivals

The Academic Year 2019-20 at Assam down town University (AdtU) was characterized by a series of vibrant and engaging events, commemorating national and international days. These activities aimed to promote cultural diversity, awareness, and community spirit among students and faculty members. Here's an overview of some key celebrations and events:

National Commemorative Days

The 71st Republic Day Celebration at Assam down town University on 26th January, 2020:

AdtU celebrated the day by unfurling the flag by the Hon'ble Vice Chancellor of AdtU in the campus followed by saluting the flag by all members present on the day. Students of AdtU performed various cultural acts in honor of the flag and to mark the celebration. The security force of AdtU marched past the dignitaries in honor of the day.

The 73rd Independence Day celebration at Assam down town University on 15th August, 2019:

Everyone celebrates this day with an undying vigour. The celebration commenced with hoisting of the National Flag by the Hon'ble Vice Chancellor of the University. The celebration was also followed by a special cultural programme which paid tribute to the martyrs of the nation.

Commemorative Days, Events and Festivals

3. **Children's Day:**
Assam down town University celebrated children's day at the nearby schools namely Bonda Anchalik M.E School, Bonda Anchalik Ucha Madhamik School, Tintukara L.P School, Rajabari L.P School, Panikhaiti L.P. School. The students of Assam down town University performed different cultural and awareness activities like skit, speech, puppet shows, motivational songs etc.

Commemorative Days, Events and Festivals

Teacher's Day:
Assam down town University celebrates Teacher's Day by paying tribute to Dr. Sarvepalli Radhakrishnan. All the faculty members were appreciated and were given a gift to show gratitude towards their contribution in building the nation.

World Tourism Day:

On the occasion of World Tourism Day the department organized a Punjabi themed food festival along with quiz competition, skit competition and poster making competition.

World Pharmacist Day:
Faculty of Pharmaceutical Science, Assam down town University celebrated "World Pharmacists Day on 25th September, 2019. On that occasion a health awareness rally was organized from down town Hospital, Dispur to down town Hospital via Ganeshguri.

World Environment Day

Assam down town University celebrates World Environment Day on 5th June, 2019. On this occasion, a plantation drive was carried out as a part of celebration.

Commemorative Days, Events and Festivals

International Dance Day:
Assam down town University (AdtU) celebrated International Dance Day with enthusiasm, highlighting the universal language of dance and its cultural significance. International Dance Day is observed annually on 29th April to recognize the art of dance and its role in bringing people together.

International Women's Day:

Assam down town University celebrated the International Women's day on 7th of March, 2020. It is a global day celebrating the socio economic, cultural and political achievements of women. on the eve of International Women's Day.

Bhogali Bihu Celebration:

Assam down town University celebrates Bhogali Bihu on 13th January, 2020. The spirit of unity and joy was palpable, making the event a memorable occasion for all. It was a perfect blend of tradition and community spirit.

Silpi Divas:

Assam down town University celebrates 69th Silpi Divas, to remember Rupkowar Jyotiprasad Agarwala. On the occasion of Silpi Divas, AdtU organized cultural function where our employees paid tribute to Jyoti Prasad Agarwala.

Commemorative Days, Events and Festivals

Gandhi Jayanti:
Assam down town University celebrated 150th birth anniversary of Mahatma Gandhi on 2nd of October, 2019. On that occasion faculty members and students of different departments were enthusiastically participated in cultural events and other activities related to Swatch Bharat Mission.

Spic Macay

Varsity Week

Sports Day

Physiotherapy Workshop

Collaborations

Title of the MoUs	Name of the partnering Institution/ industry /research lab/corporate house with contact details	Year of commencement	Duration (From-To)
Sharing of AIMA BizLab Software	All Indian Management Association(AIMA)	2019-20	11-06-2019 to 10-06-2025
Exchange of students and faculty, placement support for PG students.	Daffodil International University, Bangladesh	2019-20	01-09-2019 to 30-08-2024
Exchange of students, faculty, staff and researchers, joint research activities, organizing joint conference/winter/summer school.	Krida Wacana Christian University, Indonesia	2019-20	24-11-2019 to 23-11-2024
Joint research activities, exchange of students, faculty, staffs and researchers.	Petra Christian University, Indonesia	2019-20	24-11-2019 to 23-11-2024
Joint research activities, exchange of students, faculty, staffs and researchers.	Philippine Normal University, Philippine	2019-20	24-11-2019 to 23-11-2024

University in the News

Collage of Action 2019-2020

Accolades : Awards and Recognitions

Accolades : Awards and Recognitions

BOSE SCIENCE SOCIETY

Established under the Charter of TNSRO, Affiliated with VIPNET, Vigyan Prasar, Department of Science & Technology, Govt.of India, New Delhi, Vide Authorisation No: VP-TN009027.10.2017
Pudukkottai - 622 003, TamilNadu, India.

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2018 - 2019

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9th National Conference on Natural Sciences
held on 24th August 2019 at
Pushkaram College of Agriculture Sciences
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In recognition for his / her dedicated and services in the field of scientific research & education

24.08.2019
Pudukkottai. T.N

President

Plot No.39, Mura Bhavan, Koodal Nagar, Rajagopalapuram (Post), Pudukkottai - 622 003, Tamil Nadu, India. www.tnsroindia.org.in

Recognitions and Accreditations

Govt. of ASSAM

UGC

NAAC

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The Pillars of AdtU