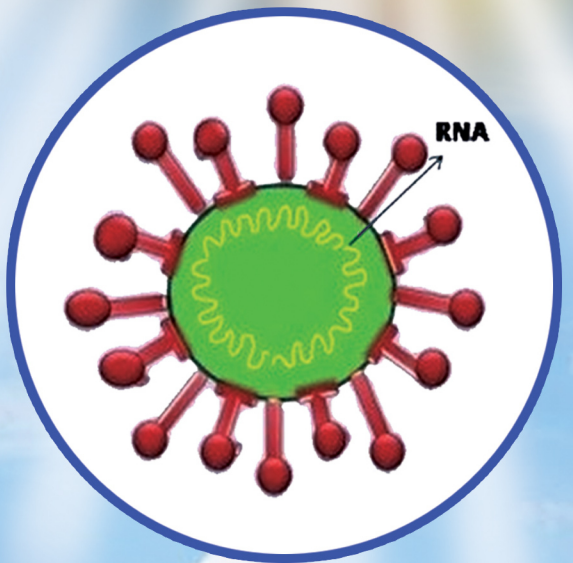




Annual Report 2020-21



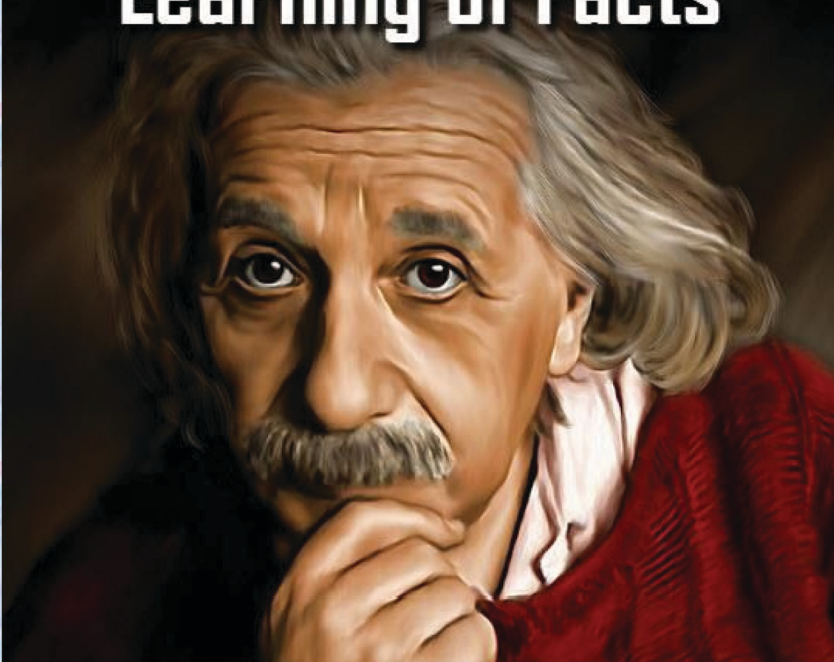
W J C C
World Journal of
Clinical Cases



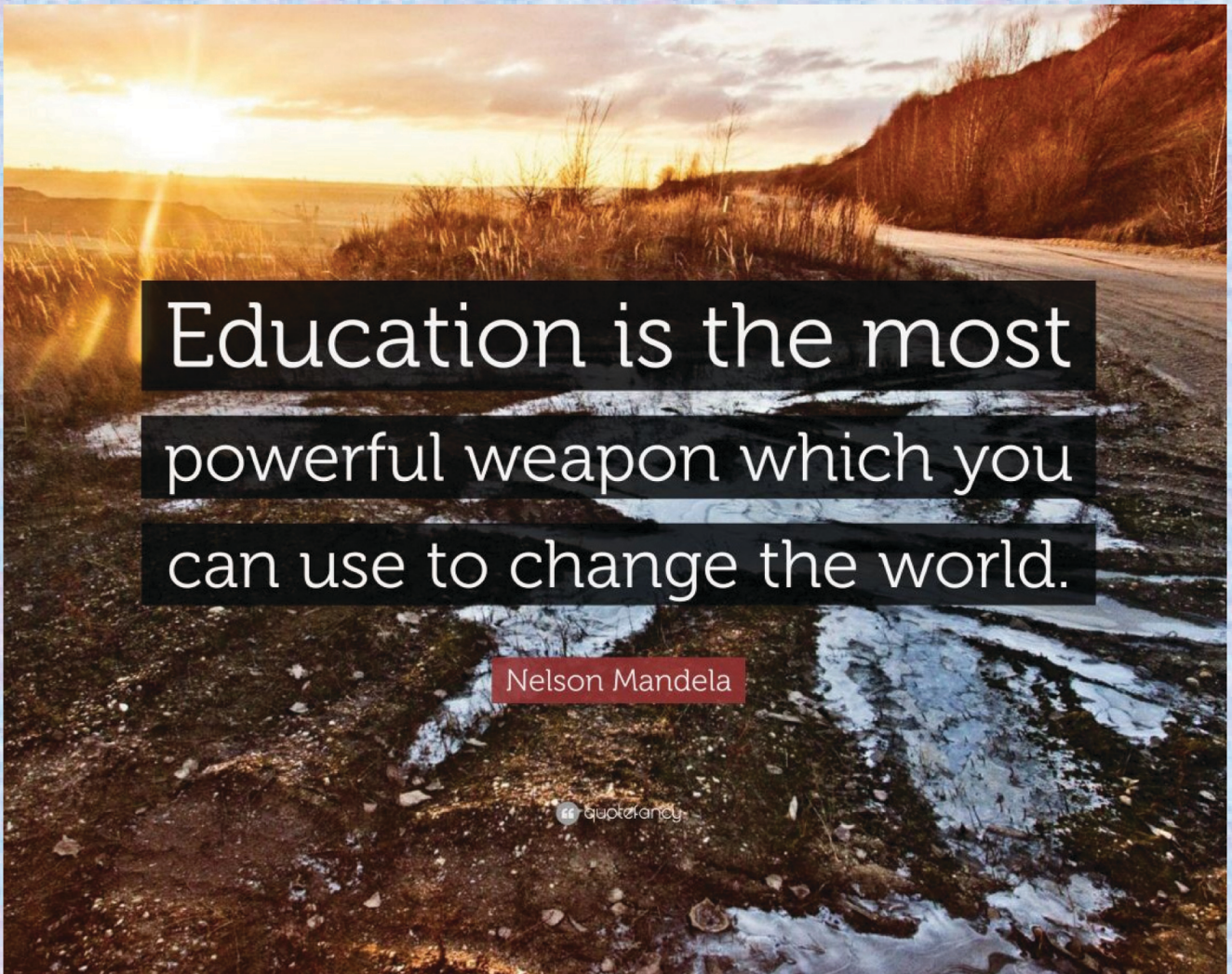
Assam down town University

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

**Education is Not The
Learning of Facts**



**It's Rather The Training
of The Mind To Think**



**Education is the most
powerful weapon which you
can use to change the world.**

Nelson Mandela

CONTENTS

| | |
|---|-----|
| Vision, Mission and Core Values | 1 |
| Chancellor's Message | 2 |
| Foreword | 3 |
| AdtU's Growth Trajectory | 4 |
| University at a Glance | 5 |
| Newly admitted Student's distribution | 6 |
| Accreditations | 7 |
| Academic's Outcome | 8 |
| Academic's Growth | 10 |
| The Curriculum, Syllabi and Courses | 11 |
| The Teaching, Learning and Evaluation Process | 13 |
| Graduation Ceremony | 15 |
| Human Resource | 18 |
| Faculty Development Initiative | 19 |
| AdtU Takes off in Research Front | 20 |
| Research Highlights | 21 |
| Research Outcomes | 27 |
| Research Publications | 41 |
| Innovative Research | 43 |
| AdtU's Consultancy- a way of Revenue | 45 |
| AdtU's Meet and Exposure Parley | 46 |
| Webinars | 59 |
| Alliance for Growth | 61 |
| Outreach Activities | 62 |
| Recognitions | 66 |
| Leadership & Governance | 67 |
| Governing Body and Finance Committee | 68 |
| The Board of Management | 69 |
| The Academic Council | 70 |
| AdtU's QAQC at a Glance | 73 |
| Policy Initiatives | 74 |
| Progress Summary- Academics/ Research | 77 |
| Celebrations at AdtU | 78 |
| Glimpses of Campus Life | 85 |
| Student's Annual Week | 90 |
| Infrastructure | 92 |
| Scholarship | 96 |
| Support of Placement Cell | 97 |
| List of Student's Events | 98 |
| Equity and Inclusive Philosophy | 100 |
| Accolade | 102 |

VISION

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

MISSION

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.

CORE VALUES

Integrity: Build relationships through trust, honesty and mutual respect.

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

Chancellor's Message



I am delighted to learn about the publication of the Annual Report of AdtU for the academic session 2020-21. Reflecting on AdtU's journey since 2010, I feel a sense of fulfillment in its impressive growth, particularly in infrastructure and also resilience demonstrated by the AdtU fraternity during the COVID-19 pandemic. I commend the dedication and hard work of the entire AdtU community, including students, faculty, staff, and field workers, for their invaluable contributions to the university's achievements. Congratulations to everyone involved, and I wish that AdtU succeed in becoming a globally recognized institution for each academic excellence and societal impact, even amidst the challenges of its location in the North-East region of India.

A handwritten signature in blue ink, appearing to read 'N. N. Dutta'.

N. N. Dutta

Chancellor, Assam down town University

Assam down town University (AdtU) has successfully completed another eventful and productive year marked by diverse activities in academics, research, and outreach. Nestled between the mighty Brahmaputra and Amchang reserve forest, AdtU boasts of its lush green campus that offers serenity and purity fostering an ideal environment for intellectual and scholarly pursuit of students, teachers and visitors. Assam down town University is the realization of the dreams and aspirations of the down town Charity Trust. Through their dedicated efforts and unwavering commitment, they have successfully produced a modest pool of skilled and competent human resources, ready to serve not only North-East India but the entire nation and beyond. The primary motive of the University is a steadfast commitment to bettering society by cultivating leaders, knowledgeable and skilled professionals, researchers and entrepreneurs. Founded in 2010 under the aegis of the down town Charity Trust and led by Chairman Dr. N. N. Dutta, a renowned physician, AdtU has completed 12 years of distinguished service in the education sector. The university was established under the Government of Assam's Private University Act of 2007, vide no. LGL.9/2010/11 dated April 29, 2010. AdtU is accredited by NAAC for the 2014-2019 period and, it is an ISO 9001:2015 certified institution.

The Annual Report for 2020-21 highlights key events and achievements across various domains including academics, research, innovations, consultancy, outreach, and placements during the academic session. This retrospective review of the University's performance serves to evaluate past efforts and inform plans for improvement in line with AdtU's vision and mission statements. It emphasizes academic and research accomplishments, student support systems, publications, patents, infrastructure, and outreach efforts benefiting students both domestically and from neighboring countries such as Nepal, Bhutan, Bangladesh, and Nigeria. Additionally, the report celebrates significant achievements of students, faculty, administrators, and staff showcasing their contributions to the University's success.

The report outlines AdtU's policies and practices related to inclusiveness, openness, gender equity, staff development, and student support, emphasizing their role in the University's overall growth. It showcases student achievements in academics, placements, sports, and cultural activities. Additionally, the report details the University's strategic plan to enhance its infrastructure to match the standards of leading global academic institutions. The financial support and resources of the University are crucial for implementing the proposed activities each academic year, and the report includes an expenditure statement to reflect actual progress.

The achievements of a university over the course of a year are a testament to the dedicated efforts and hard work of its community, as well as the intellectual and scholastic support of its supporters and stakeholders. I would like to express my heartfelt gratitude to each and every one of them. With this in mind, I present the AdtU Annual Report 2020-21 to its readers.



N. C. Talukdar
Vice Chancellor, AdtU

Way back in 2010, the University started with only two buildings; by 2020-21 it constructed 12 multistory buildings without stressing the lush green nature and ecosystem of the campus. Overall, these buildings infrastructures include the library, classrooms, laboratories, seminar halls, staff rooms, office, cafeteria, recreational room, and cinema hall inside. The AdtU campus also contain a multistory building for multipurpose activities such as yoga, swimming, gym, indoor games, and the Hari Narayan Dutta Baruah (HNDB) library. A playground of international standard has been developed for outdoor games such as football and cricket and was made ready for the students and faculty before the onset of the academic session 2020-21. The construction of an amphitheater of more than 3000 audience capacity has been completed and this facility fosters to the need cultural and co-curricular activities of students. This structure is unique and first of its kind in North-East India. The University has been continuously adding new infrastructures to bring quality to its academic, research and other developmental activities.

The University began with 300 students and 50 teachers in 2010 and its academic journey began with an offering of 15 programs for student during its first academic session. By the academic year 2020-21, it admitted 1223 students, 315 teachers, and 43 programs with a total of 1653 courses. At the end of the first Bachelor program in the year 2013, 94.42% of the first batch students graduated with flying colors and made the university proud. Many of these first batch graduates (121) were placed in reputed companies such as Genesis, Wipro, Tech Mahindra, HP, HCL, Infosys, Ajanta Pharmaceuticals, Reliance Jio, British Telecom, various diagnostics centre and food industries, etc. About 21% progressed to higher degree (M.Sc. & Ph.D.) programs of the University in the subsequent years. Several graduates joined Universities of repute outside North-East India

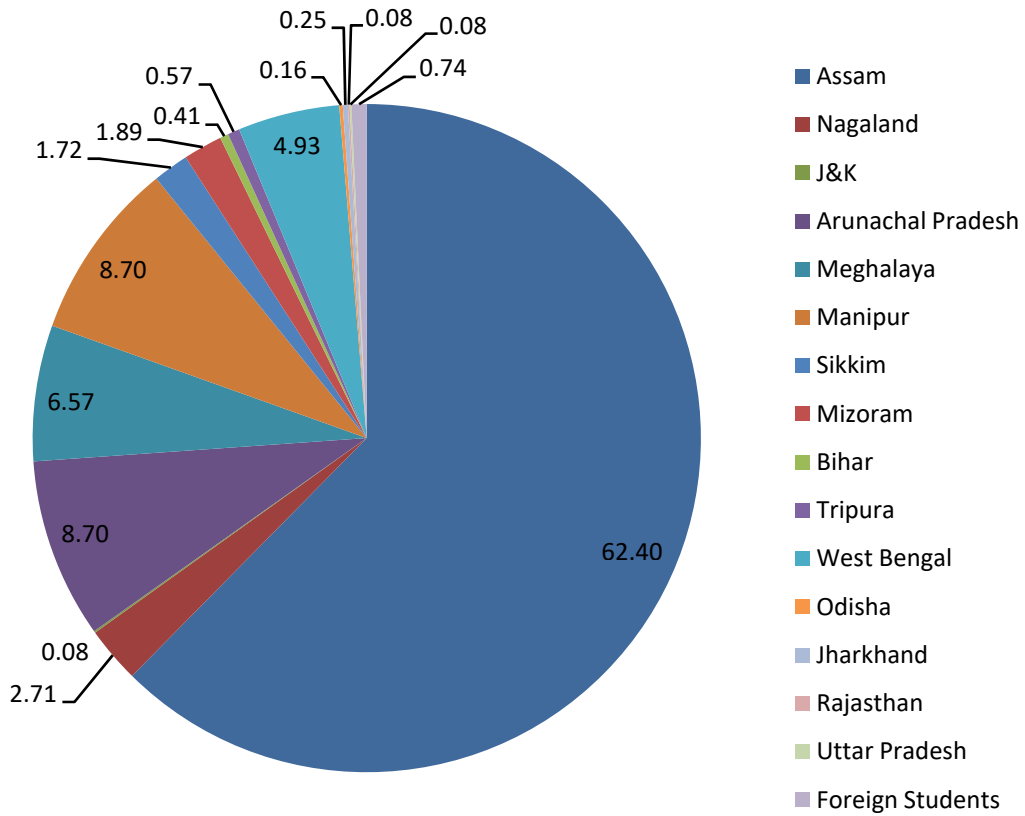
The HNDB (Hari Narayan Dutta Baruah) central library was established in 2010 and had a modest beginning with few books and research journals. In the academic year 2020-21, the library hosted around 550 titles, 20 reputed research journals in hard bound form and e-books, e-journals have flourished in that year. Around 29824 research journals are made available in the library. The University has made strategic plans to strengthen the research by initiating Ph.D. programs, provision of seed grants for researches, and encouraging faculty to apply for competitive extramural research fund from National and International Government and Non-Government funding agencies. In the academic year 2020-21, 56 research scholars were enrolled into Ph.D. program of AdtU and 02 extramural project proposal submitted to DST. The first few extramural research grants were received by AdtU from the Department of Biotechnology, Govt. of India during 2015 & 2017. These two projects have been successfully completed during the academic session 2020-21.

For academics and research improvements, the university has established collaboration with several National and research & academic institutions such as NEIST (North East Institute of Science and Technology), Jorhat, IASST-DST, Guwahati, IIT Guwahati Biotech Park, and the foreign university namely Daffodil University, Dhaka. Thus, this growth trajectory of AdtU over a decade provides impetus to accelerate in infrastructure, academics, research and outreach fronts.

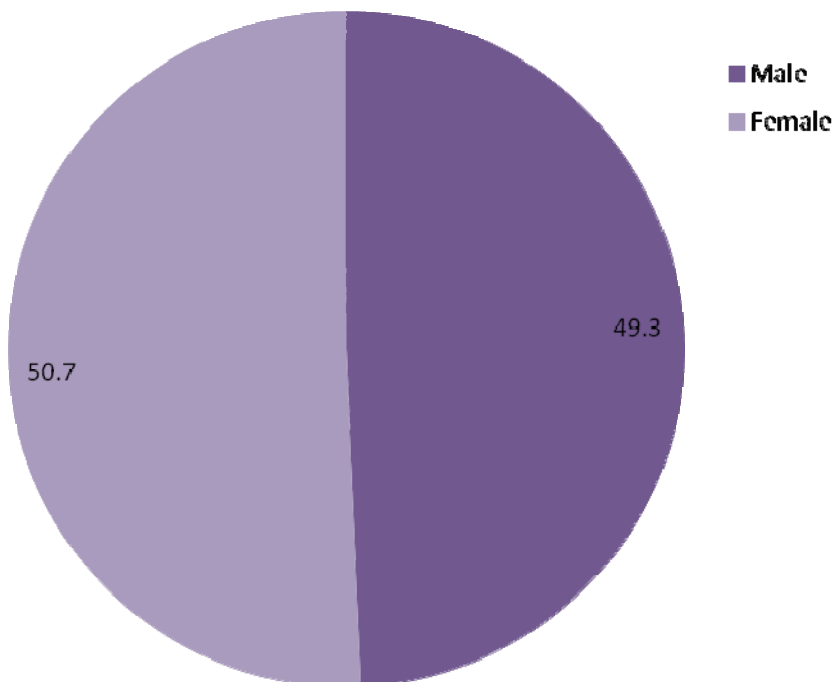
University at a Glance

| | |
|--|--|
| Vice Chancellor | Prof. (Dr.) N. C. Talukdar |
| Institutional Status | Private University |
| NAAC | B, 2.23 CGPA |
| Others | ISO 1900-2015 |
| <p>Ranked in A3 Band-Institute of Excellence in MHW Ranking 2021 in the pursuit of excellence towards best institute for campus life and mental health wellbeing. Received membership certificate from Education Promotion Society for India (EPSI).</p> | |
| <p>Received a certificate from Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education Government of India for forming 5 core teams consisting of faculty members and students in Sanitation & Hygiene, Waste Management, Water Management, Greenery and Energy Conservation to make AdtU's campus eco-friendly, green and self-sustainable.</p> | |
| <p>Received certificate from World Book of Records, London to validate its dedicated and relentless commitment for promoting safety against Covid-19 pandemic and pledge to serve the Society with honesty and sincerity for reducing the human sufferings, also to guide for the best prevention of Corona-virus disease as specified by the World Health Organization (WHO).</p> | |
| Quality Enhancement and Outcomes | |
| Executive development/ Management Development through FDP/Workshop/training programs | 6 numbers of Faculty Development Program organized, 2 numbers of training program organised for Non Teaching staff and 4 nos of workshop organised during the year 2020-21. |
| Documentation of different policies and procedures | Policies and procedures pertaining to assigning weightage for different research activities, AdtU PhD schemes for in house PhD scholars, creation of data pool and consultancy policy(revised) etc was prepared and approved by Statutory Body. |
| Digitalized Teaching Learning Methods/ Academic Digitization/ e-Library | Took the subscription of edatabase DELNET and number of computer is also increased in the library. |
| Participation in National/International Rankings | Participated in NIRF 2021 and Mental Health and wellbeing (MHW) Ranking 2021. |
| To Design, implement of Quality Management System | Retained the certificate of ISO 9001:2015 Quality Management System(QMS). |
| Fostering a culture of innovation and entrepreneurship | An Entrepreneurship and Business Incubation Cell named down town Venture Labs (dtVL) has been set up. down town Venture Labs (dtVL) is the only organisation from Northeast India to have been selected as an implementing agency for Technology Incubation and Development of Entrepreneurs (TIDE 2.0) program. |
| Number of programmes | 43 |
| Students Admitted | 1218 |
| Number of PhD Scholar on roll | 56 |
| Graduated Students | 719 |
| Full Time Teacher | 315 |
| Number of extramural funded project | 02 |

Newly admitted Students' distribution (Region-wise)



Students' Gender Equity



Accreditations

Accreditations




 विश्वविद्यालय अनुदान आयोग
 University Grants Commission
 विश्व संसाधन विकास आयोग
 (Ministry of Human Resource Development, Govt. of India)
 संसदीय सचिवालय, नई दिल्ली-110002
 Bahadurshah Zafar Marg, New Delhi-110002
 Phone : 011-23604329, 011-23604431


 सं-सचिव (पुस्तक)

www.ugc.ac.in
 E-mail: ugcp@ugc.ac.in

27 NOV 2019
 November, 2019

SPEED-POST

F.No.8-26/2010 (CPP-IPU)

The Registrar,
 Assam Down Town University
 Sankar Madhab Path, Gandhi Nagar
 Panikhati
 Guwahati - 781 036

Subject: Status of Assam Down Town University under section 2(f) - regarding


Madam,

With reference to your mail dated 01.10.2019 on the subject cited above, I am directed to inform you that Assam Down Town University, Sankar Madhab Path, Gandhi Nagar, Panikhati has been established by an Act of the State Legislature of Assam as a Private University and is empowered to award degrees as specified under Section 22 of the UGC Act, 1956 through its main campus in regular mode with the approval of Statutory Bodies/Councils, wherever it is required, after creating required academic and physical infrastructure facilities including library, laboratories and appointment of teaching and supporting staffs as per the norms and standards laid down by UGC and other relevant Statutory Council (s). The name of the University has been included in the list of Universities established as per Section 2 (f) of the UGC Act, 1956.

Yours faithfully,

 (Kusum Mahajan)
 Under Secretary

ৰাজপত্ৰ - ১৯৭/১১
 Registered No. - 768/97


 অসম ৰাজপত্ৰ
THE ASSAM GAZETTE
 অসমৰাৰণ
EXTRAORDINARY
 প্ৰতে কৰ্মৰ বাৰা প্ৰকাশিত
 PUBLISHED BY THE AUTHORITY

না 113 নিমগ্ন, বুধবাৰ, 29 এপ্ৰিল, 2010, 9 বঙ্গাব্দ, 1932 (৭৭)
 No.113 Dispur, Thursday, 29th April, 2010, 9th Baisakha, 1932 (S.E.)

GOVERNMENT OF ASSAM
 ORDERS BY THE GOVERNOR
 LEGISLATIVE DEPARTMENT :: LEGISLATIVE BRANCH

NOTIFICATION


The 29th April, 2010
 No.LGL/9/2010/11.- The following Act of the Assam Legislative Assembly which received the assent of the Governor is hereby published for general information.

ASSAM ACT NO. VIII OF 2010
 (Received the assent of the Governor on 29th April, 2010)

THE ASSAM DOWN TOWN UNIVERSITY ACT, 2010


Certificate IN1905894

The management system of
Assam Downtown University





 SGS

Sankar Madhab Path, Gandhi Nagar, Panikhati, Guwahati - 781036, India
 has been assessed and certified as meeting the requirements of
ISO 9001:2015
 For the following activities:
 Provision of Higher Educational services

The certificate is valid from 14 March 2022 and 07 February 2025 and remains valid subject to satisfactory surveillance audits.
 Issue 2. Certified since 07 February 2015
 Last certificate expiry date 07 February 2022
 Recertification audit date 18 January 2022

Authorized by


SGS Under Registrar Ltd
 Phoscroft Park, Oldham, Greater Manchester, OL9 5SL, UK




 SGS

Page 111


PHARMACY COUNCIL OF INDIA

NBCC Centre, 3rd Floor Plot No.2, Community Centre
 Website : www.pci.nic.in
 Contact : 011-61299900/91/02/03
 Maa Anandamayi Marg Okhla Phase I
 NEW DELHI - 110029

DECISION LETTER

Institute Name / Inst ID : Department of Pharmacy Faculty of Pharmaceutical Science Assam down town University, PC1-548
 State : ASSAM
 District : KAMRUP METRO
 Sub-District : Chandrapur
 Village/Town/City : Panikhati
 Pin Code : 781026



Sir / Madam
 With reference to the subject cited above I am directed to convey the approval of PCI as per following Details

| Course | Name of Affiliation | Decision | Approval Status |
|-------------------|---|--|-----------------|
| B.Pharm | The Registrar Assam Down Town University Shankar Madhab Path Gandhinagar Panikhati Guwahati | Annexure-7 Item No.52 of of 111 CC (6 & 7 April, 2021) B.Pharm course is already approved upto 2024-2025 academic session for 100 admissions. | Approved |
| B.Pharm(Practice) | The Registrar Assam Down Town University Shankar Madhab Path Gandhinagar Panikhati Guwahati | Annexure-7 Item No.52 of of 111 CC (6 & 7 April, 2021) B.Pharm (Practice) course is already approved upto 2024-2025 academic session for 49 admissions. | Approved |
| D.Pharm | The Registrar Assam Down Town University Shankar Madhab Path Gandhinagar Panikhati Guwahati | Annexure-7 Item No.52 of of 111 CC (6 & 7 April, 2021) D.Pharm course is already approved upto 2024-2025 academic session for 60 admissions. | Approved |

| | | | |
|-----------------------|---|--|----------|
| M.Pharm Pharmaceutics | The Registrar Assam Down Town University Shankar Madhab Path Gandhinagar Panikhati Guwahati | Annexure-7 Item No.52 of of 111 CC (6 & 7 April, 2021) M.Pharm (Pharmaceutics)-09 | Approved |
| M.Pharm Pharmacology | The Registrar Assam Down Town University Shankar Madhab Path Gandhinagar Panikhati Guwahati | Annexure-7 Item No.52 of of 111 CC (6 & 7 April, 2021) M.Pharm (Pharmacology) 06 | Approved |

Date : 20th Jul 2021

For Archana Madgal
Registrar-cum-Secretary
PCI

Copy to:
 i) Registrar of the University
 ii) Principal of the college
 iii) Secretary/Chairman of the Trust/Society
 iv) Guard File (PCI)
 Note: Validity of the course details may be verified at www.pci.nic.in.

The academic activity of the University was carried out within seven faculties of studies, namely Faculty of Science, Paramedical Science, Pharmaceutical Science, Engineering and Technology, Commerce and Management, Humanities and Social Science, and Nursing. A total of 43 programs were offered during the academic year. The year was a dark era for the entire world because of COVID-19 pandemic. The University has to shift suddenly from physical mode of teaching and learning to online mode. The sudden strategic change required few months for the university to be ready and therefore there was a slight delay in the teaching and learning process for the academic year 2020-21.

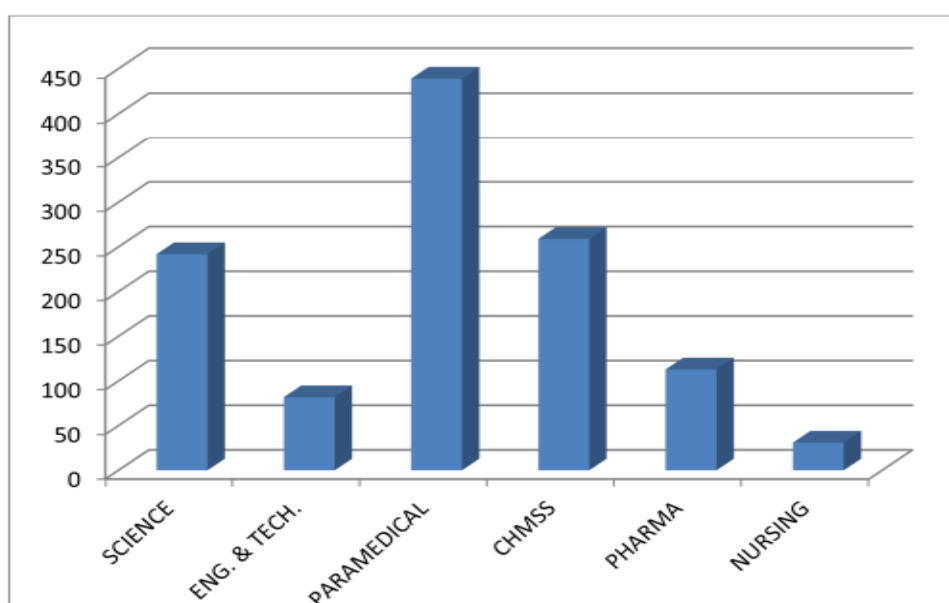


Fig.1: Number of students admitted under different Faculties of AdtU in the academic session 2020-21.

It took a month for the University to start over with newer method of teaching and learning by using its in-house developed Learning Management System (LMS) 'PRAN'. It quickly adopted zoom, google meet, webex, for conducting classes online using recorded videos for teaching and learning. Other platforms used were whatsapp, gmail, yandex and other email platform for communication. The academic process started from the month of Sep, 2020, and ended in the month of Jan, 2021. At the end, it was a great success achieved by AdtU in teaching learning through online mode. This was reflected even in greater number of enrollment of students during July, 2020 to August, 2020 for the Academic session 2020-21. The online teaching and learning process continued till the lockdown ceased by the end of September, 2021. The admission of students under different Faculties is shown in Fig.1 and detailed breakup is presented in Table 1.

Academic's Outcome

The end semester examination for the students was conducted by the examination department of the University under the leadership of Controller of Examination (CoE) supported by all the faculty members of the Faculty of Studies. One thousand eighteen (1018) students appeared and Nine hundred sixty four (964) passed the examination, those who could not complete their examination appeared for re-examination after a gap of 30-45 days. The result (94% pass) of the academic year despite of the COVID-19 outbreak was satisfying. The pass percentage of students of different programs is highlighted in the figure below.

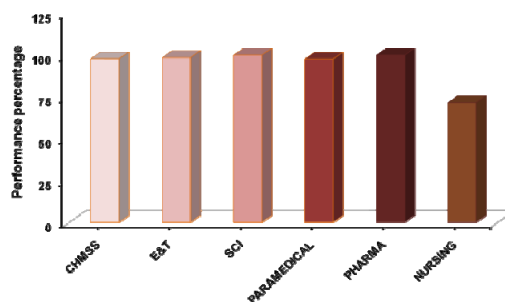


Fig. 2: Faculty-wise performance percentage of students during 2020-21 academic session

The semester end examination was started on 3rd week of June and completed on 1st week of August, where the Department of Examination along with 80% of the faculty members from different Faculty of Studies, participated as Examination Officer, Invigilators, Relievers and Observers for the smooth conduct of examination. There were no any untoward incidence during the examination.

All the results were declared in between July-August according to the policy of examination which is within 15-20 days from the day of completion of examination. The Department of Examination received certain grievances from students and look prompt action to redress them at the earliest. The examination branch disposed most grievance within two to three days after registration of receiving. Grievances such login problem and network failure were received and resolved instantly by the student support team (Examination). A team was constituted by members from respective programs and the IT administrators for this purpose. The students who genuinely could not appear because of internet issues were allowed to reappear as soon as it was restored. The examination was conducted on online mode, the questions were generated by the system automatically. A question paper generator was developed by the University, the algorithm chose questions randomly and therefore each of the students had separate set of questions papers for the same subject. The questions were of both objective and descriptive type. The question papers were set up by following blooms taxonomy for assessing the students in every aspects of their ability. The objective questions were verified directly by the algorithm based on the key answers hosted by the question bank. The descriptive questions were checked and evaluated by the respective course teachers. Post result grievances included spelling errors in name mostly which were rectified and mark-sheets were reprinted within two or three days. Some of the students applied for rechecking and revaluation of the descriptive questions.

This is the first time in the history of the University that a paper less examination was successfully conducted to the satisfaction of all the stakeholder of the University.

Academic's Growth

| Faculty of Studies | Program name | Code | Number of Students admitted | |
|---|---|---------|-----------------------------|---------|
| | | | 2019-20 | 2020-21 |
| SCIENCES (SCI) | B.Sc. Biotechnology | BBT | 24 | 54 |
| | B.Sc. Microbiology | BMB | 39 | 60 |
| | M.Sc. Biotechnology | MBT | 14 | 16 |
| | M.Sc. Microbiology | MMB | 28 | 23 |
| | M.Sc. Botany | MSCB | 08 | 7 |
| | M.Sc. Zoology | MSCZ | 08 | 8 |
| | B.Sc. Food, Nutrition & Dietetics | BFN | 39 | 33 |
| | M.Sc. Food, Nutrition & Dietetics | MFN | 20 | 37 |
| | M.Sc. Biochemistry | MBC | 04 | 4 |
| ENGINEERING AND TECHNOLOGY (E&T) | B.Tech. Civil Engineering | BCE | 103 | 33 |
| | B.Tech. Computer Science & Engineering | BCS | 24 | 44 |
| | B.Tech. Mechanical Engineering | BME | 17 | 5 |
| PARAMEDICAL SCIENCE (PARAMEDICAL) | Bachelor in Advance Imaging Technology | BAT | 130 | 81 |
| | Bachelor in Dialysis Technology | BDL | 42 | 31 |
| | Bachelor in Optometry Technology | BOP | 63 | 46 |
| | Bachelor in PhysioTherapy | BPT | 121 | 102 |
| | Master in Pysiotherapy | MPT | 04 | 8 |
| | Bachelor in Trauma, Emergency & Disaster Management | BTM | 13 | 31 |
| | B Sc in Operation Theatre Technology | BOT | 33 | 38 |
| | Bachelor of Medical Laboratory Technology | BML | 128 | 86 |
| | Masters in Medical Laboratory Technology | MML | 4 | 8 |
| | Master of Emergency and Critical Care | MEC | 13 | 8 |
| COMMERCE, HOSPITALITY, MANAGEMENT AND SOCIAL SCIENCES (CHMSS) | Bachelor of Arts in Psychology | BPY | 22 | 26 |
| | Bachelor of Arts in Sociology | BSL | 10 | 19 |
| | Master of Science in Clinical Psychology | MCP | 4 | 27 |
| | M.A. in Applied Psychology | MAP | - | 5 |
| | Bachelor of Business Administration | BBA | 40 | 49 |
| | Bachelor of Travel & Tourism Management | BTTM | - | 17 |
| | Bachelor of Social Work | BSW | 17 | 16 |
| | MBA in Health Care Management | MHM | - | 18 |
| | Bachelor of Hotel Management | BHMCT | 23 | 21 |
| | Master of Social Work | MSW | 35 | 12 |
| | Master of Business Administration | MBA(FT) | 62 | 47 |
| | Bachelor in Performing Arts | BPA | 1 | 2 |
| PHARMACEUTICAL SCIENCE (PHARMA) | Master of Pharmacy | MPS | 12 | 15 |
| | Bachelor of Pharmacy | BPS | 110 | 98 |
| NURSING | M.Sc-Nursing | MNU | 12 | 13 |
| | B.Sc-Nursing | BNU | 56 | 58 |

The Curriculum, Syllabi and Courses

The University follows the norms and regulations prescribed by various statutory bodies such as UGC, AICTE, PCI, INC etc., in designing and development of the curriculum and syllabus under respective programs. The syllabi for the current Academic session included well-defined Program Learning Objectives (PLO), Program Outcomes (PO) and Course Outcomes (CO). During preparation of the curricula and syllabi of the academic year 2020-21, emphasis was given on holistic development of the students so that they emerge as responsible graduates with able leadership quality to serve society. The suggestions of the Peer Review team of first cycle of NAAC were also kept in view while preparation of syllabi. The curriculum and the content of the syllabus under respective programs reflected issues of local, regional, national and global relevance and the students perspective i.e. analysis, evaluation of problems and creativity to bring solution of the problem encountered. For example, the students of Faculty of Engineering and Technology analyze, evaluate and provide their creative ideas for solving the problems of landslide and flood during rainy season in NE India. The syllabi of Faculty of Sciences includes specific areas for solving the issues relevant to fermentation of indigenous fruit resource and production of biofertilizers for organic agriculture, respectively. The specific health issues such as metabolic syndrome and associated complications, and physical abnormalities, were dealt by the Faculty of Pharmaceutical Science, Paramedical Sciences and Nursing. The economical and social issues of the tribal's and villages were incorporated in the syllabi of Management, Humanities and Social Sciences. The courses such as environmental science was mandatorily included in all of the undergraduate programs for building awareness on the environment and climate changes in all the category of students. The other courses include human values, ethics and bioethics, Intellectual Property Right (IPR), as common in curricula across all the programs. The academic year 2020-21 introduced new programs such as BSc Nursing, Post Basic Nursing, Masters of Social Works, MBA in Health Care Management, and Masters in Travel and Tourism Management to produce human resources as survey of job market and societal need showed very limited human resources in these sectors in NE India.

As the curriculum is dynamic and keeps evolving with the changing needs of the industry and society at large, the University has an inbuilt provision for periodic revision of the course curriculum and syllabi. However, programs at any given time contain courses which range from basic to advanced and from applied to innovation and impart knowledge required by the students for getting employed at relevant level of employments. Measures were taken by conducting rigorous training on personality and interview skills development, visits to industries, academic and research institutes for exposures and for creating interest for enhancing placement. Many of the courses were developed, focusing on the need of various Skill enhancement and entrepreneurship venture and these courses also exposed students to experiential learning. The syllabus of all of the programs were revised to varying degree, Some programs such as Bachelor of Social works (BSW), Masters of Social Works (MSW), Bachelor of Sociology (BSO), Masters of Sociology (MSO), Bachelors of Psychology (BPY), MSc Clinical Psychology (MCPY) were revised thoroughly and exhaustively incorporating relevant issues of regional, national and global relevance.

Different Faculty of Studies also introduced a large number of elective courses to create awareness on areas beyond the course content in their regular curriculum with a consideration to benefit the students in day to day life and also to benefit advance learner students interested in course which may provide in-depth knowledge and skill to be a successful entrepreneurs. Such courses were Public Health and Hygiene, Basics of Nutrition, Research Methodology, Concepts of Organic Cultivation, Introduction to Life Sciences, Entrepreneurship & New Venture Creation, Cookery with Bakery & Confectionery, Introduction to Internet & Web Security, Introduction to Renewable Energy, Pharmaceutical Marketing, Concepts of Herbal Drugs, Basic of Human Anatomy & Physiology, First Aid, Nursing Education, Nursing Management etc.

The curriculum of the programs of the reporting year 2020-21 were broadly categorized into three perspectives such as Learning, Research and Social.

The learning perspective emphasized on basic concepts and focused on the advanced and innovative aspects of the relevant disciplines. The perspective was accomplished by conducting regular theory and practical classes, the number of such classes however were dependent on the type and credit of the course. Besides, creative or problem solving assignments, group discussions, research projects execution and personality and interview skill development were also included as a part of the curricula for developing their personality, professional skill, cognitive ability and creative thinking.

The research perspective focused on the development of student's analytical ability and creative thinking for solving various problems pertaining to North Eastern region of India. The basic areas included food science, pharmaceutical, agricultural, health sciences, and socio-economic developments. Students of undergraduate and post graduate programs in their final semester had to undergo an experimental research or survey research on a selected topic relevant in the context of the society of North Eastern region of India. The students of Paramedical Sciences had undergone internship in the reputed pathological laboratories or hospital and submitted their findings in the form of report to the respective programs. The students of Nursing had undergone health and welfare duties in the various hospitals serving patients as part of this program curricula. The students of biological sciences and pharmaceutical sciences had undergone experimental research in the field of bioprospecting, biofertilizers, bioremediation, plant and animal taxonomy, and molecular biology. The students of Faculty of engineering and technology focused on the flood related issues, designing and development of instruments such as spot welding, bio-gas plants, composting unit, solar-driers etc. The Management, Hospitality and Tourism concentrated their research on socio-economic development and value addition of the local food products for raising their market price. The Humanities and social sciences conducted survey and outreach essentially to bring awareness on the importance of education, donating books, cloths and toys to the needy. Further, explorations were made for enhancement of the market value of the products sold by the villagers from villages in the neighborhood of AdtU.

The social perspective included outreach programs in the adopted villages based on the need of the villages. This was achieved by conducting various outreach programs such as adult education, healthcare education, hospitality and tourism, health camps, donations to flood victims, book donations, etc. All the members of the University including students, teachers and office staffs participated and some of the programs were headed by Faculty of Commerce Management, Humanities and Social Sciences, Nursing, Science (Food & Nutrition) and IQAC.

7 Faculty
of Study

43
Programs

1653
Total
courses

199 New
courses

The Teaching, Learning and Evaluation Process

The Teaching, Learning and Evaluation Process

The University enhanced teaching learning ambience developing ICT enabled classrooms, Digital Library, Online Interactive System (OLS) for teaching, learning and evaluation processes. In the reporting year, all of the students were evaluated at three levels by conducting two written examinations within the ongoing semester and one semester end examination. The examinations within the ongoing semester was conducted by the respective programs of the Faculty of Studies and the semester end examination was conducted by the University Examination Department. The examinations within the ongoing semester was conducted to assess the progression of a student in his/ her area of study. Based on the performance of the student they were divided into slow or advanced learner. The slow learners were supported by conducting tutorial and/ or remedial classes. They were also mentored and encouraged to work hard and push themselves to the advance learner category by a mechanism of Mentor-Mentee effort of the University. The advanced learners were mentored, guided and supported for engaging themselves for high level scholarly activities. Many of the advanced learner initiated self learning and research activities guided by the faculty members and participated in scientific seminar and poster presentation and they assisted the faculty in their researches in various laboratories of AdtU. They published articles with their guide or mentors. This student centric activity provided appropriate pedagogy for participative and experiential learning. The Student-Faculty ratio (25-30:1) was optimally maintained during the academic year. The students and faculty members extensively used ICT facilities in the academic year under compulsion of COVID-19 for effective teaching and learning and ICT enabled activities during 2020-21 were higher than the earlier academic years. The University ensured the recruitments of qualified and experienced faculty members through appropriate manpower planning. Most of the faculty members also received recognition in different fields, at state, national and international levels during the year.

During the academic year the value added courses offered by AIMA BIZZLAB, Coursera were taken. The student numbers in these two categories were 75 and 114, respectively. Some other courses such as Cosmetic Science (158 students), Experimental Pharmacology (44), International Women's Health and Human rights (49), website development (22), Basic of computer (60), Nano-Science and Technology (30), Introduction to ERP through SAP (22), Application developer (215), Web Development Engineer (315) were also studied by students of various programs. The final year students had undergone research project or field projects in their respective field of studies pertaining to problems of their local areas.

Results of the End Semester Examinations 2020-21

| Faculty | Program Name | Appeared | Passed | Performance |
|--|--|----------|--------|-------------|
| COMMERCE, HOSPITALITY, MANAGEMENT AND SOCIAL SCIENCES | Bachelor of Social Work | 5 | 5 | 100 |
| | BA Sociology | 11 | 11 | 100 |
| | BA Psychology | 18 | 18 | 100 |
| | Master of Science in Clinical Psychology | 4 | 4 | 100 |
| | Master of Social Work | 32 | 32 | 100 |
| | Bachelor of Hotel Management and Catering Technology | 25 | 25 | 100 |
| | Bachelor of Arts in Tourism Management | 11 | 10 | 91 |
| | Bachelor of Business Administration | 17 | 16 | 94 |
| | Master of Business Administration | 56 | 53 | 95 |
| ENGINEERING AND TECHNOLOGY | B. Tech. Civil Engineering | 110 | 103 | 94 |
| | B. Tech. Computer Science & Engineering | 12 | 12 | 100 |
| | B. Tech. Electronics & Communication | 1 | 1 | 100 |
| | B. Tech. Mechanical | 10 | 10 | 100 |
| SCIENCE | BSC Biochemistry | 3 | 3 | 100 |
| | BSC Biotechnology | 27 | 27 | 100 |
| | BSC Food Nutrition & Dietetics | 34 | 34 | 100 |
| | BSC Microbiology | 29 | 29 | 100 |
| | MSC Microbiology | 26 | 26 | 100 |
| | MSC Biotechnology | 14 | 14 | 100 |
| | MSC Food Nutrition & Dietetics | 20 | 20 | 100 |
| | MSC Botany | 8 | 8 | 100 |
| | MSC Chemistry | 4 | 4 | 100 |
| MSC Zoology | 8 | 8 | 100 | |
| PARAMEDICAL SCIENCE | BSC Dialysis Technology | 32 | 32 | 100 |
| | Bachelor of Medical Laboratory Technology | 117 | 115 | 98 |
| | Bachelor of Optometry | 49 | 40 | 82 |
| | Bachelor of OT Technology | 29 | 29 | 100 |
| | Bachelor of Trauma, Emergency and Disaster Management | 13 | 13 | 100 |
| | Bachelor of Physiotherapy | 70 | 68 | 97 |
| | Bachelor of Radiography & Advance Imaging Technology | 65 | 65 | 100 |
| | Master of Emergency and Critical Care | 12 | 12 | 100 |
| | Master of Medical Laboratory Technology | 4 | 4 | 100 |
| Master of Physiotherapy | 4 | 4 | 100 | |
| PHARMACEUTICAL SCIENCE | Bachelor of Pharmacy | 61 | 61 | 100 |
| | Master of Pharmacy | 12 | 12 | 100 |
| NURSING | MSC NURSING | 12 | 12 | 100 |
| | BSC NURSING | 56 | 24 | 43 |

Graduation Ceremony

The Eighth convocation of AdtU for academic session 2020-21 was held on 15th, Sept 2021. There was extraordinary situation during the convocation time as COVID-19 pandemic disrupted normal life and the event was organized with minimum person attending physically while maintaining the COVID-19 protocol. Majority attended virtually in online platform. Most of the students received their degrees virtually and collected their degrees on later dates. The occasion was graced virtually by the Visitor of the University, Honorable Governor of Assam, Prof. Jagdish Mukhi, The Honorable Chancellor Dr. N.N. Dutta and The Honorable Vice Chancellor, Prof. N. C. Talukdar attended the meeting physically. Dr. Prafula Kumar Mahanta (Former Chief Minister of Assam) and Mr. Padma Hazarika (Entrepreneur and Hon'ble Member of State Assembly) were bestowed with honorary D.Lit. degrees for their valuable contribution towards the society and the Nation.

Dr. Prafulla Kumar Mahanta is an Indian Politician and the leader of the Assam Movement. He was the Chief Minister of Assam and the former President of the Asom Gana Parishad (AGP), a major political party in the Indian state of Assam. He became the chief minister in the state when the AGP came to power in 1985, becoming the youngest Chief Minister of an Indian state. He served as the chief minister for two terms, 1985–1990 and 1996–2001.

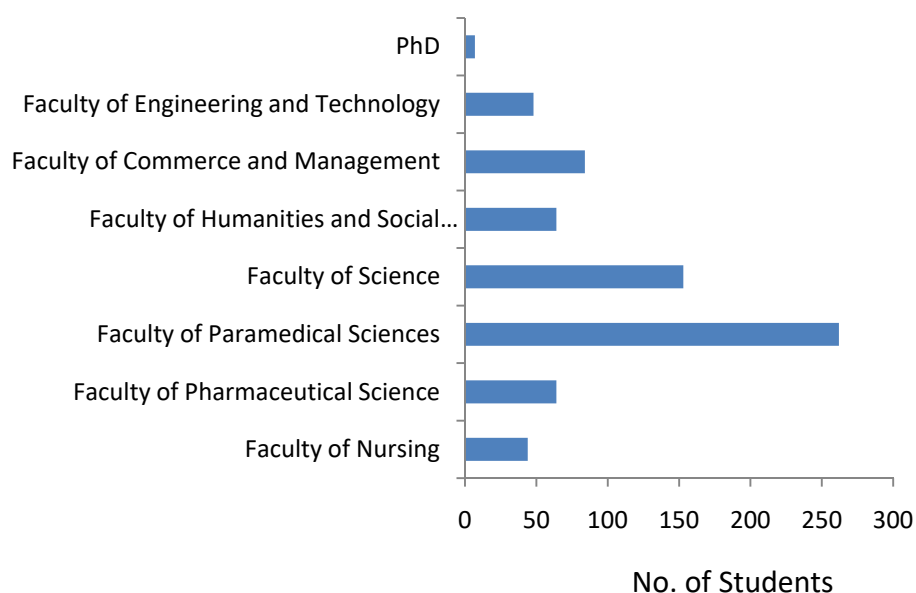
Mr. Padma Hazarika, a renowned political leader and a successful entrepreneur of Assam. He was able to mobilize youth of the state towards agricultural entrepreneurship and sustainable agriculture. Thousands of unemployed youth joined his cooperative farm of thousand hectare size and got engaged to become entrepreneurs of organic agri-product.



Graduation Ceremony

In the 8th Convocation, Ms. Rinamani Sarmah Bordoloi and Mr. Shonahar Ali from Statistics, Ms. Karabi Bharali from English, Ms. Vandana Singh from Botany, Ms. Chandrama Kalita from Physics, Mr. Jyoti Prasad Dutta from Management, Ms. Sultana Hazarika from Zoology were awarded PhD degree. Another 751 graduates, 213 post graduates were also awarded degrees for successful completion of their respective programs. Ms. Jyotismita Sarma and Ms. Jutima Baruah were awarded with gold medal for their excellent performance in all round academic, co- and extra-curricular activities during their respective graduate and postgraduate program. Best Placement achiever award was presented to Ms. Debapriya Paul who obtained MBA degree from Faculty of Commerce and Management.

% of Graduated Students (Faculty wise)



List of PhD Awarded highlighting their works

List of PhD Awardees

| Faculty | Discipline | Name of the supervisor(s) | Name of the Ph.D scholar with unique ID (PhD enrollment ID) | Research Topic | Date of Notification for award of PhD Degree |
|--------------------------------|------------|---|---|--|--|
| Science | Botany | Dr. Prasenjit Bhagawati; Dr. Jyotchana Gogoi & Dr. DK Bhattacharjya | Vandana Singh (ADTU/2012-16/PhD/015) | Ethno- Botanical studies on some medicinal plants and their application against various gynecological disorders in Barpeta district of Assam | 08-09-2021 |
| | Physics | Dr. Anil Kr. Goswami | Chandrama Kalita (ADTU/2015-19/ PhD/099) | Study of physical properties of Muga and Eri Silk fibres found in Assam | 09-08-2021 |
| | Statistics | Dr. Manash Pratim Kashyap Dr. Dhritikesh Charkabarty | Rinamani Sarmah Bordoloi (ADTU/2014-18/PhD/026) | Determination of confidence interval of annual extremum of temperature in the context of Assam | 09-08-2021 |
| | Statistics | Dr. Manash Pratim Kashyap | Shonahar Ali (ADTU/2015-19/PhMD/096) | A study on flood frequency analysis of the river Krishnai of Goalpara district, Assam | 09-08-2021 |
| | Zoology | Dr. Pallabi Das Dr. Yamin Hassan & Dr. Prasanna Dutta | Sultana Hazarika (ADTU/2015-19/PhD/108) | A study on the limnological changes in wetlands of Dibrugarh district and its impact on some selected Fauna | 13-08-2021 |
| Commerce and Management | Economics | Dr.Homeswar Goswami (Supervisor) | Jyoti Prasad Dutta (ADTU/2014-18/PhD/055) | Organisation and functioning of public distribution system in Assam with special reference to Dibrugarh district | 09-08-2021 |
| Humanities and Social Sciences | English | Dr. Gautam Sarma (Supervisor) | Karabi Bharali (ADTU/2012-16/PhD/002) | The soliloquies in Shakespeare's tragedies and the epiphanic context | 08-09-2021 |

Human Resource

The primary component - Human Resources/ Teaching staff of an education system was very carefully selected by the University following the prescribed criteria, rules, regulations and the format framed by the UGC. The selections for recruitments were done constituting appropriate selection committee headed by the Vice Chancellor. In the academic year 2020-2021, the University recruited 49 new teaching members in various faculty of study, among them 28 were Assistant Professor, 7 Associate Professors and 4 Professors. It also recruited guest faculty members (4) in some of the disciplines. The faculty members were Ph.D. degree holders. In addition, six teaching assistant, 40 technical staffs and 48 non-teaching staffs were recruited to increase professional strength for assisting teaching. For the content of the courses requiring specialized expertise, scientists, professors and other eminent persons were invited for lectures. Thus, the human resources of other academic and research institutions were indirectly used for the benefits of the students by arranging their visits to institutions of repute or inviting experts to deliver lectures from these institutions.

| Particulars | Teaching Staff | | | | | | | | | | | | Total |
|-------------|----------------|--------|-------|---------------------|--------|-------|------------------------------|--------|-------|-----------------------|--------|-------|-------|
| | Professor | | | Associate Professor | | | Assistant Professor/Lecturer | | | Guest Faculty/Advisor | | | |
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Existing | 19 | 7 | 26 | 29 | 12 | 41 | 108 | 133 | 241 | 3 | 4 | 7 | 315 |

| Particulars | Technical Staff | | | Non-Teaching Staff | | |
|-------------|-----------------|--------|-------|--------------------|--------|-------|
| | Male | Female | Total | Male | Female | Total |
| Existing | 6 | 34 | 40 | 30 | 18 | 48 |

Faculty Development Initiative

Assam down town University, for the all-round development of the faculty members conducted various faculty development programs. Besides academic inputs it also had taken initiative to uplift the academics of the faculty members by providing seed grant for enhancing their experience through research. To encourage self-development, the faculty members were financially supported for attending conference, seminar and academic meetings, but during the reporting year, the facility could not be availed by the faculty members because of COVID-19 pandemic. However, all faculty members participated in online courses from Coursera, joined online conferences and seminars and also organized several workshops, faculty development programs in online mode (Table...). The University further incentivized those faculty members who performed well in teaching by bestowing best teacher award during the academic year. Also the best performers for electronic documentations among the faculty members were selected for awards. Some of the faculty members received award from many reputed organizations during the academic year. Prof. Nirmali Gogoi received Women Research Award from the International Scientist Award on Engineering Science and Medicine. Prof. Gitumoni Konwar received International best research Award for outstanding achievements in research and Academics from the International Society of Scientific Network (ISSN).

Table... The details of workshops, seminars, and faculty development programs, attended and organized.

| Title of the program | Date |
|--|------------------------|
| UGC Sponsored Online Faculty Induction Programme | 17-Jul-21 to 24-Aug-21 |
| Statistical Methods in Biological Sciences | 29-Jun-21 to 05-Jul-21 |
| FDP on research proposal writing. | 16-Dec-20 to 19-Dec-20 |
| Research ethics and academic writings in social sciences | 28-Jun-21 to 04-Jul-21 |
| Refresher Course on Social Sciences and Humanities | 12-Jul-21 to 26-Jul-21 |
| Research Methodology and Academic Publication: Special Focus on Use of Scientific Tools and Software (Interdisciplinary) | 13-Jun-21 to 19-Jun-21 |
| Two Weeks Workshop on Higher Education, Technology and Research Methodology | 02-Aug-20 to 15-Aug-20 |
| Statistical Methods in Biological Sciences | 29-Jun-21 to 05-Jun-21 |
| Advance Research Methodology Tools and Techniques | 15-Apr-21 to 30-Apr-21 |
| Research Ethics and Academic writings in Social science | 28-Jun-21 to 04-Jun-21 |
| Pandemicity | 13-Jul-21 to 18-Jul-21 |
| New Narrative of NAAC, | 01-Aug-20 to 07-Aug-20 |
| Orientation Programme for faculty of Universities/Colleges/Institutions of higher education | 10-Nov-20 to 09-Dec-20 |
| Transformation in Academics & Research Innovation:Emerging Trends and Challenges | 19-Jun-21 to 25-Jun-21 |
| Climate Change Challenges and Disaster Risk Reduction | 20-Jun-21 to 26-Jun-21 |
| PRA-A Powerful Tool for Rural Development | 28-Sep-20 to 02-Oct-20 |
| Mathematics and Statistics in Emerging Field | 05-Jul-21 to 10-Jul-21 |

The research policy of Assam down town University aims to generate and support a research culture among its faculties and students and leverage it to enrich and increase the professional capability of the faculty members. The faculties of Assam down town University were involved in focused research in addition to teaching responsibilities. The University has initiated Ph.D. programs focusing on the areas such as Diabetes, Tuberculosis, molecular studies of cancer, Green Synthesis of nanoparticles and their application in health, environment, and pollution, functional properties of biomolecules from medicinal plants against various infectious & non-infectious diseases like Jaundice and artificial intelligence, etc. New laboratory equipment were purchased to facilitate research immediately after the lifting of the lockdown which was imposed due to COVID-19. The University also provided seed grants to the faculty members to initiate an investigation in the areas of their

interest. Unfortunately, no research could be carried out using seed grant because of the lockdown in the state during the academic session. In fact, some of the buildings were used by State Govt. in a make-shift arrangement to take care of the COVID-19 patients.

There were some of the existing intramural and extramurally funded research continuing during the academic session. Twelve (12) projects with cost outlay ranging from Rs. 5,000 to Rs. 2,95,000 were mobilized from non-government sources by the Engineering and Technology faculty members. Few projects from Government funding agencies such as ASTEC, DST, and DBT were also running during the academic session although, project activities slowed down due to COVID-19 pandemics. The sanctioned budget of this project ranged from Rs. 5.00 lakhs to Rs. 15.00 lakhs.

Introducing Annals of Multidisciplinary Research, Innovation and Technology (AMRIT)

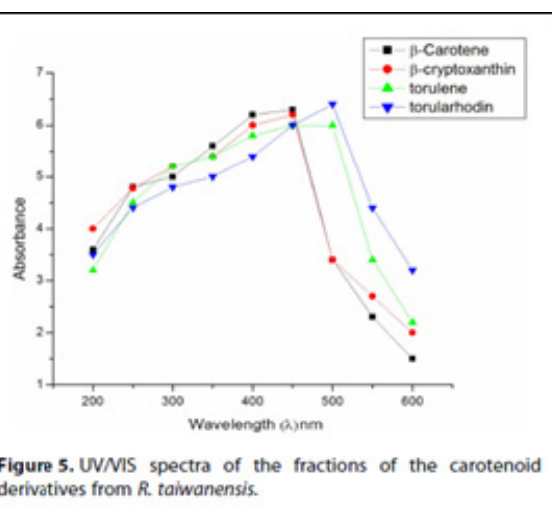
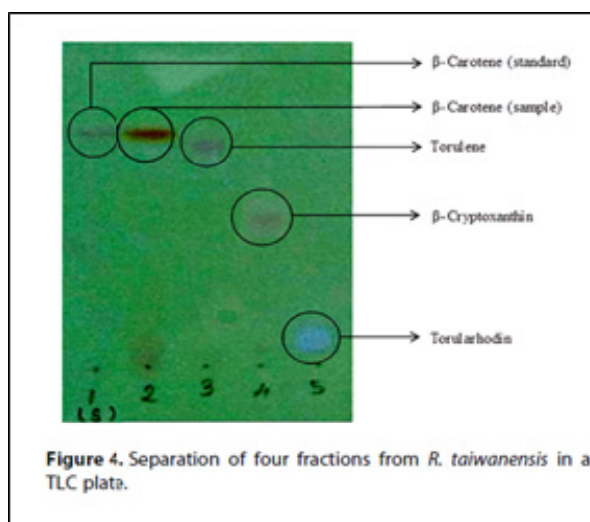
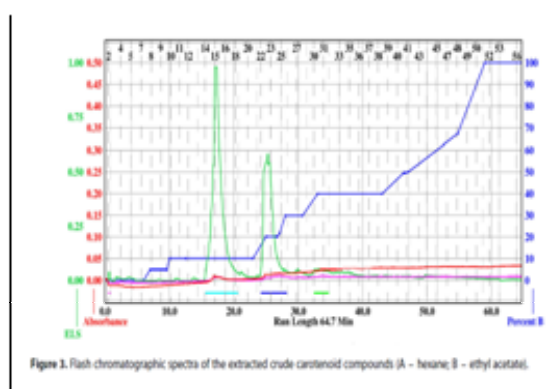
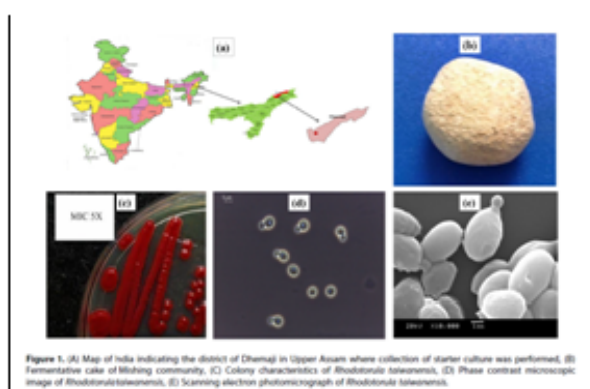
Annals of Multidisciplinary Research, Innovation and Technology (AMRIT) is a peer reviewed multidisciplinary biannual open access journal planned to focus on publication of original article that contributes significantly to the knowledge in Physical Science, Life Science, Chemical Science, Agricultural and allied Sciences, Engineering and Technology, Food Technology, Biotechnology, Microbiology, Molecular Biology, Pharmaceutical Science, Physiotherapy, Paramedical Science, Nursing, instrumentation and methodology,

Commerce, Business Management, Education, Humanities & Social Science. The Journals will contain original full length "Research articles" containing research findings of the authors, "Review article" of summarized state of research on a topic which are often but not always by invitation, "Short/Mini Review Paper", a shorter version of a review paper on an emerging topic of interest summarizing the state of research focusing a future direction, "Short/Rapid/Brief Communication", a shorter version of original research article, whose methods, findings, etc. don't justify a full-length paper, "Case Reports/Pilot project reports/Survey project reports" and "Letters/Opinion/Commentaries".

Research Highlights

1 Characterization of β -Cryptoxanthin and Other Carotenoid Derivatives from *Rhodotorula taiwanensis*, A Novel Yeast Isolated from Traditional Starter Culture of Assam

The present investigation was intended to characterize pigments in *Rhodotorula taiwanensis* (LC011412) yeast which was isolated from the ethnic fermentation starter culture source. The main objective was to evaluate the carotenoid contents for different applications. The pigments were extracted by an optimized solvent system, purified by flash chromatography and were identified by TLC and UV/VIS spectroscopy. The absorbance spectra confirmed the presence of β -carotene, β -cryptoxanthin, torulene and torularhodin that showed maximum absorbance (λ_{max}) within the ranges. The fractions were further characterized by LC/MS and analyzed through FT-IR and NMR for structure elucidation. Spectral analyses also confirmed the presence of the compounds. These compounds showed potential applications in food, nutraceutical, pharmaceutical and cosmetic sectors.

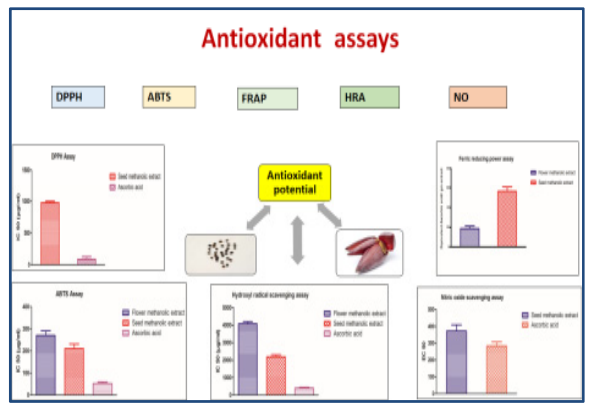
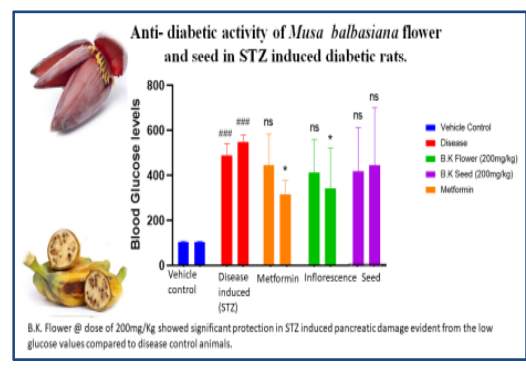
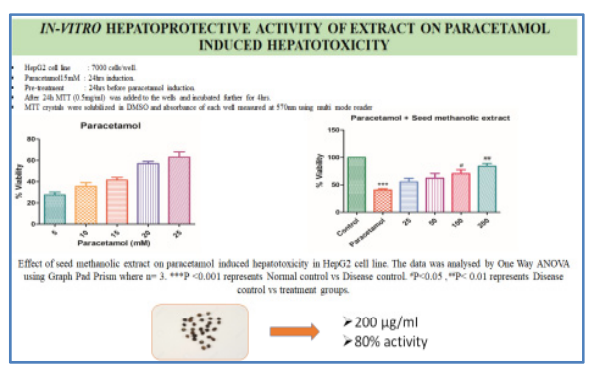


Research Highlights

2 Characterization of High Value phytochemicals for Anti-diabetic and Immunomodulatory properties in North Eastern India banana varieties.

This research project was funded by the Department of Biotechnology (DBT), Government of India, for three years in 2018, to Ms. Daisy Sarma, Assistant Professor of Food Nutrition and dietetics Faculty of Science. An amount of Rs. 29,97,000 was sanctioned in 22/03/2018. There was a delay of almost two years because of the COVID-19 pandemic. The collaboration partner of the project were the Institute of Advanced Study in Science and Technology, DST, Gol, Guwahati, Assam; North Eastern Hill University, Meghalaya; National Research Centre for Banana, Tiruchirappalli;

Tamil Nadu Agricultural University, Coimbatore and Institute of Life Sciences, Bhubaneswar, Odisha. The objectives included characterization and optimization of banana extract, assessment of nutritional parameters, and study of their therapeutic properties concerning anti-diabetic, hepato-protective, and antioxidant activities. The seeds and inflorescence of *Musa balbasiana* were found to be rich in proteins, fat, fibers, minerals (Fe, Zn, Ca, Mg, P). Calorific values were 333 and 324 Kcal per 100g dry seeds and inflorescence, respectively. The seeds and inflorescence showed antioxidant, anti-diabetic, and hepato-protective in in-vitro assays. They were also found to help protect pancreatic and liver cells.



Research Highlights

3

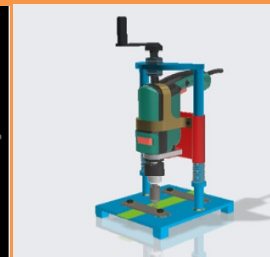
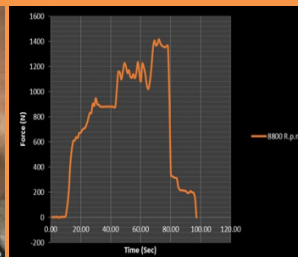
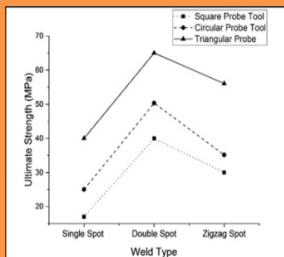
Design and Fabrication of a portable friction stir welding machine

This research was initiated by Mr. Manash Jyoti Borah in collaboration with Assam Engineering College Guwahati to assist with the welding and make a portable welding machine. It was funded by ASTEC, DST, Govt. of India for two years. However, because of the COVID-19 pandemic, the experiments were delayed and finally completed in 2021. The objectives included -

1. Designing a low-cost portable Friction Stir Welding Machine and Fabricating the welding machine.
2. To perform experiments on the machine and
3. To find its optimum parameters.

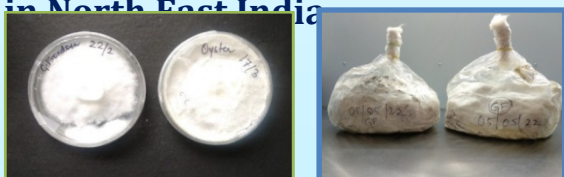
To enhance the design and efficiency of FSSWs, an FSSW powered by 850 W was used in this study. A few experiments were conducted to check the feasibility of the machine after it was fabricated based on the requirements. For the experiments in

the manufactured device, three variable parameters, viz. pressure, type of tool, and joints, were considered for the FSSW experiment. The tools were circular, triangular, and square probes and the pressure was 15 Psi, 16 Psi, and 17 Psi. The joints considered for the study was single spot, double-spot, and zig-zag spot joints based on various reference. The temperature generated during each welding joint was noted to check the temperature distribution by the machine in the welding sample. A patent entitled "System and Method for Double spot Friction Stir Welding and Double spot Zigzag Friction Stir Welding" has been published and is under examination. An international conference titled "Effect of Tool Geometry and Process Parameters on the strength of Various Friction Stir Spot Welded Lap Joints" was attended by the Principal Investigator at the Proceedings of the 5th World Congress on Mechanical, Chemical, and Material Engineering (MCM'19) Lisbon, Portugal.



Research Highlights

4 Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India



The project is executed by Dr. Rajeev Sarmah and Dr. Minakshi Bhattacharjee Faculty of Science, in collaboration with ICAR Research Complex for NEH Region, Manipur Centre, Imphal and ICAR-Indian Agricultural Research Institute Pusa, New Delhi. It has been funded by the Department of Biotechnology, Govt. of India. The budget for Assam down town University component is Rs. 14,35,200 for a daunting three years. The two aspects of the study first, explore the agripreneurial potential of Maitake mushroom through the supply of quality spawn and second, impart training towards capacity building on mushroom production technologies to farmers and local growers, including unemployed women of Northeast India and utilization of mushroom spent substrate for the

production of vermicompost. Among the activities continuing on the project is a Sensitization Program that was organized in collaboration with the Department of Biotechnology of Gauhati University on 30/03/2021 at Patharkuari, Sonapur, Guwahati to make farmers aware of the importance and health benefits of mushrooms, as well as the techniques for growing them.

Spawn Production for Maitake mushrooms

1. The time required for the growth of *G. frondosa* mycelia in Potato Dextrose Agar (PDA) media was found to be 40 – 45 days. Compared with *P. ostreatus* mycelia, which was found to be 10-15 days after incubation at 25°C, it was a slow-growing strain growing well at lower temperatures.
2. Spawn production was tested on wheat and paddy grains. Complete colonization was seen on wheat grains within 60-65 days for *G. frondosa*, whereas for *P. ostreatus* it was seen within 20-25 days. Different substrates are being evaluated for best-quality spawn, which includes multiple food grains such as rice and wheat and sawdust supplemented with grains. We are also keen on developing a liquid spawn for Maitake mushrooms for ease in handling and storage.



5

Development of a nanotechnology based system for estimating and monitoring pesticide level in tea leaves

The project is funded by ASTEC-DST, Govt. of Assam, to Dr. Sunandan Baruah, Professor, Faculty of Engineering and Technology. The project had four objectives. ZnO nanoparticles and nanorods on the electrode's surface was synthesized using Hydrothermal Method. ZnO nanorods-based sensor was tested with the different molar concentrations of pesticides. The inter-digitized electrodes were made with the help of DIPtrace software. Then the mirror image print of the layout design was taken on the OHP sheet using a laser printer. The copper board, according to the size of the layout, is cut, which is taken as the base material. The printed side is placed on the copper side of the PCB. The design was pasted on the copper board after it was ironed; therefore, the ink traces were on the PCB. The PCB plate is allowed to cool down, and the OHP sheet is slowly removed from the PCB plate. The PCB plate was dipped into the ferric chloride solution to remove the unused copper portion, and the part where the design is pasted remains in the PCB plate.

Resistance of the ZnO nanorods sensor was checked under visible light and then under UV light. On fall of the UV light on the sensor, electron-hole pairs are photo generated, consequently, the resistance decreases. Scanning electron micrographs (SEM) of ZnO nanorods grown at different concentrations were taken.

The SEM images showed increase in both the width and length of the nanorods with increase in concentration of reactants. The average width and height of nanorods were 80 nm and 4000 nm, respectively, at a growing concentration of 5mM, which increased to 280 nm and 10,000 nm at 15mM. X-ray diffraction (XRD) showed the formation of ZnO with a wurtzite

structure. Increase in the (002) peak suggest crystal growth along the c-axis as shown in the figure.

Malathion was used for testing.-spiked samples of the pesticide in the concentration of 2.9, 5.8, 8.7, 11.6, and 14.5 ppm. The spiked samples of different concentrations were dropped on the sensor electrode, and the voltage drop across the sensor observed to be proportional to concentrations.

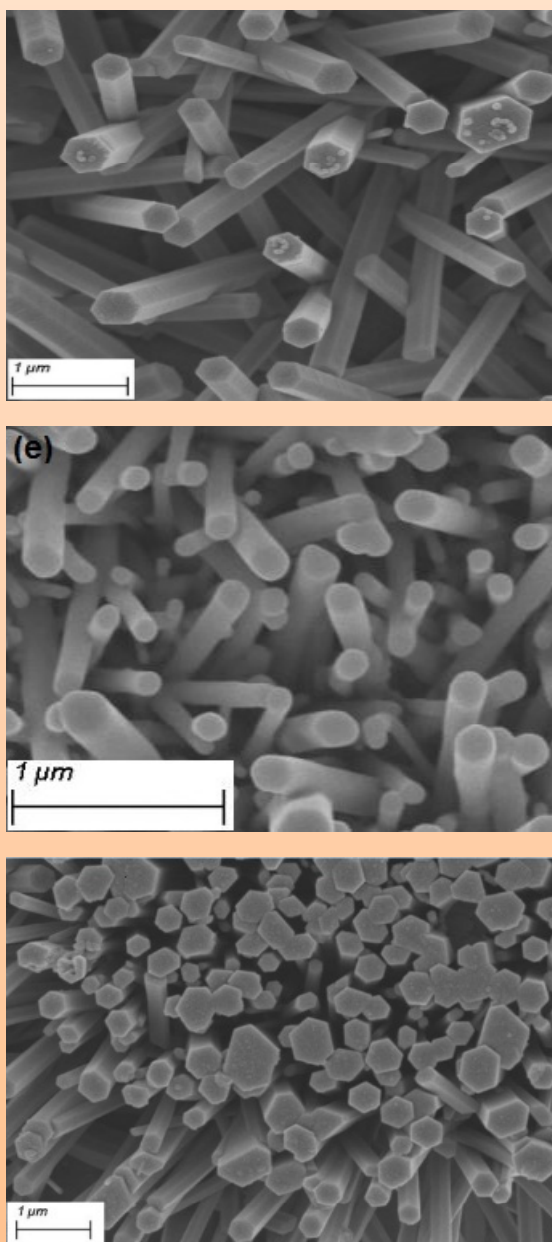


Figure: Representative picture XRD (X-Ray diffraction) showing the formation of ZnO with wurtzite structure

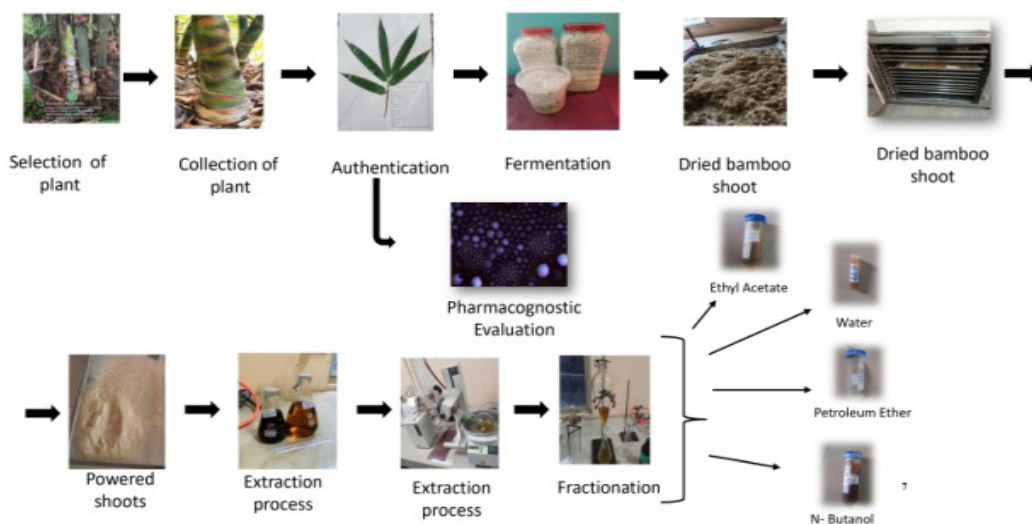
Research Highlights

6

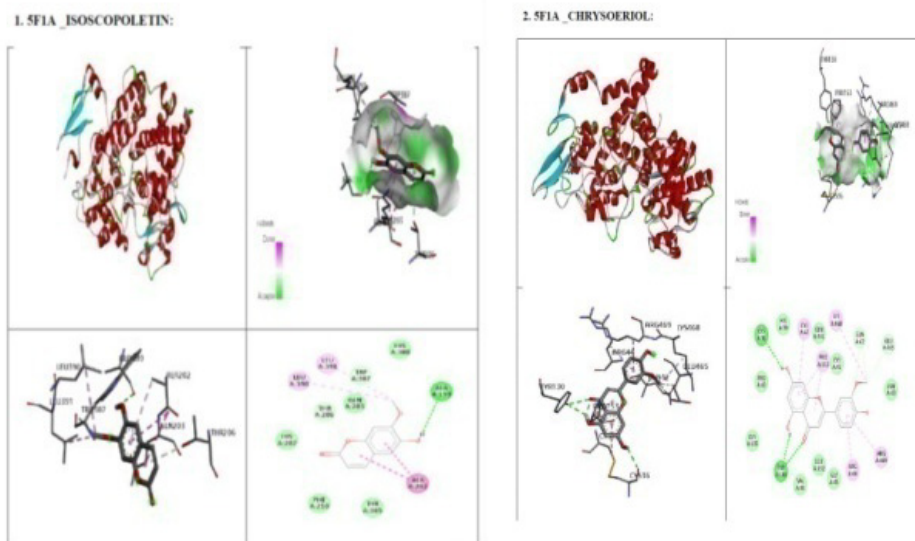
Phytochemical and pharmacological studies of shoots extract of Bambusa balcooa and Bambusa tulda.

This research project was a AdtU Seed Money which evaluated the extracts of the two species for their antioxidant, antimicrobial, analgesic, and anti-inflammatory activities in-vitro and in-vivo. The shoots of Bambusa balcooa and Bambusa tulda contains higher amount of phytoconstituents like alkaloid, phenols, flavonoids, glycosides, steroids, carbohydrate and saponins and exhibit antioxidant, antimicrobial, analgesic and anti-inflammatory activity. The hydrogel formulation prepared using the extract also showed promising analgesic and anti-inflammatory property.

Estimation of phytoconstituents



In silico molecular docking study



Research Outcomes

| Total no. of Journal Publication | Total no. of Book chapter | Total no. of patents |
|----------------------------------|---------------------------|----------------------|
| 105 | 51 | 02 |

Journal Publications

| Publication Title | Author-name | Journal-name |
|--|---|---|
| Pathogens Identification And Pest Control In Plant Disease Diagnosis | Santa Mandal,Ruhul Amin,Sazedur Rahman Akanda, Moidul Islam Judder | International Journal of Botany Studies |
| Effect of Gravity Componentson The Basipetal Flow of Endogenous Content of Iba During Culture of Coleus Blumei L.Stem Cuttings | Dr. Mrinal Kumar Das, | Natural Volatiles And Essential Oils |
| Understanding The Dynamics of Migration From Bangladesh To Tripura: Insights From Census Reports | M K Deb,Arobindo Mahato | Indian Journal of Economics And Development |
| Cynodon Dactylon Pers.: A Review On Forage Crop And Medicinal Herb | Papia Dutta,Jyotchna Gogoi, | Journal of Pharmaceutical Research International |
| Theophylline Derivatives' In-Vivo Analgesic And Anti-Inflammatory Activities | Faruk Alam,Ruhul Amin,Biplab Kumar Dey , Josef Yakin, Smriti Rekha Chanda Das, Mohidul Islam, Himangshu Deka, Republica Borgohain And Durgaprasad Kemisetti | Journal of Pharmaceutical Research International |
| Common Indian Spices With Potential Anti-Diabetic Activity | Silvia Niang, Ananta Choudhury, Biplab Kumar Dey, Christina Narzary | Indian Journal of Natural Sciences |
| Prediction of Aggregate Impact Values And Aggregate Crushing Values Using Light Compaction Test | Jayanta Das, Saikat Deb, Biswadeep Bharali | Journal of Applied Engineering Sciences |
| Homology Modeling of Apoprotein Opsin And Covalent Docking of 11-Cis Retinal And 11-Cis 3, 4-Didehyroretinal To Obtain Structures of Rhodopsin And Porphyropsin From Zebra Danio, Danio Rerio (Hamilton, 1822) | Arijit Chakraborty,Susmita Dey,Saurav Mahanta,Geetartha Kaushik | Jordan Journal of Biological Sciences |
| Bioactive Compounds And Nutraceutical Properties of Allium Species: A Review | Phuritshabam Vivekanandini Devi, | International Journal of Botany Studies |
| A Review On The Reported Antibacterial Activity of 1,3,5-Triazine | Suddhasatya Dey,S. K. Mandal, M. Bhowmick, M. Ghosh, P. Dagur, S. Shah, Biplab Kumar Dey And E. F. Ewies | Egyptian Journal of Chemistry |
| Flemingia Vestita: A Review On Its Nutritional And Medicinal Properties | Birinchi Bora, | International Journal of Botany Studies |
| The Combined Effectiveness of Piriformis Stretch And Muscle Activation Exercises In Patients With Sacroiliac Joint Pain | Bhupendra Karki,Abhijit Kalita,Abhijit Dutta | International Journal of Life Science And Pharma Research |
| A Review On Non-Target Toxicity of Deltamethrin And Piperonyl Butoxide: Synergist | Mrinmoy Basak,Moksood Ahmed Laskar,Rejwan Ahmed Choudhury, Priyanka, Biplab Kumar Dey Goswami | Journal of Pharmaceutical Research International |
| A Study To Assess The Prevalence of Low Back Pain And Its Rism Factors Among Nurses In Sikkim. | Dr Gitumoni Konwar,Prof. Nirmali Gogoi , Ms Anita Bhujel | Turkish Journal of Physiotherapy And Rehabilitation |

Research Outcomes

| Publication Title | Author-name | Journal-name |
|--|--|--|
| Comparative Phytochemical Study of Total Compound of Hibiscus Rosa-Sinesis And Tagetes erecta And Their Antimicrobial Activity | Dhiman Chandra Paul, Deep Prakash Parasar, Minakshi Bhattacharjee, Kiran Telenga, Devabrata Saikia | International Journal of Botany Studies |
| Phytochemical Analysis And Antibacterial Activity of Methanolic And Aqueous Extracts of Cumin (Cuminum Cyminum) Seeds | Supratim Goswami, Kiran Telenga, Devabrata Saikia, Deep Prakash Parasar, Surjya Loying | International Journal of Botany Studies |
| A Review On The Reported Antibacterial Activity of 1,3,5-Triazine | Mrinmoy Basak, Md Rejwan Ahmed Choudhury, Biplab Kumar Dey, Sajidul Hoque Ansari, Moksood Ahmed Laskar, Priyanka Goswami, Rosamund Jyrwa, Pal Gogoi, | Journal of Pharmaceutical Research International |
| Phytochemical And Antioxidant Activity of Agaricus Bisporus And Pleurotus Ostreatus And Their Antimicrobial Activity Against Escherichia Coli And Staphylococcus Aureus. | Pritishmita Rajguru, Rahul Nayak, Bhriganka Bharadwaj, Sangita Boro, Surjya Loying, Prasenjit Bhagawati | International Journal of Botany Studies |
| Astragalin Mediates The Pharmacological Effects of Lysimachia Candida Lindl On Adipogenesis Via Downregulating Pparg And Fkbp51 Signaling Cascade | Sagar Barge, Narayan Chandra Talukdar, Barsha Deka, Bhaswati Kashyap, Simanta Bharadwaj, Raghuram Kandimalla, Aparajita Ghosh, Partha Pratim Dutta, Suman Kumar Samanta, Prasenjit Manna, Jagat C. Borah | Phytotherapy Research |
| Assessment of The Antioxidant Activity And Antimicrobial Activity of Flemingia Vestita Root Extract | Bhriganka Bharadwaj, Sangita Boro, Rahnam B Jyrwa, Rahul Nayak, Surjya Loying | International Journal of Botany Studies |
| Antifungal Activity of Flavonoid Isolated From Lindernia Crustacea (L) F. Muell Against Traditionally Claimed Dermatophytes | Smriti Rekha Chanda Das, Dibyendu Shil, Abdul Baquee Ahmed, Trishna Das, Faruk Alam, Jashabir Chakraborty | Journal of Pharmaceutical Research International |
| Evaluation of A Novel Melatonin-Loaded Gelatin Sponge As A Wound Dressing | Nongmaithem Randhoni Chanu, Kunal Bhattacharya, Daphisha Marbaniang, Paulami Pal, Subhabrata Ray, Bhaskar Mazumder | Journal of Vascular Nursing |
| Gc-MS Profiling And Assessment of Antioxidant And Antibacterial Properties of Oil Extracts of Sichuan Pepper | Lam Dorji Tamang, Sangita Boro, Bhriganka Bharadwaj, Suraj Kumar Singh | International Journal of Botany Studies |
| Phytochemical Analysis And Antimicrobial Activity of Leaves of Ipomoea Aquatica Forssk | Maya Konwar, Prasenjit Bhagawati, Manash Pratim Sarma, Surjya Loying, Rahul Nayak | International Journal of Botany Studies |
| Role of Chitosan, Gelatin And Manuka Honey In Management of Wound Healing: Some Recent Developments And Future Prospect | Christina Narzary, Ananta Choudhury, Biplab Kumar Dey | Indian Journal of Natural Sciences |
| A Brief Review On Synergistic Antimicrobial Activity of Some Bioactive Phytochemicals | Ananta Choudhury, | Indian Journal of Natural Sciences |
| Essential Oils of Plants And Their Action Against Biofilm Producing Food Borne Pathogens | Bhanita Chutia, Devabrata Saikia, Surjya Loying, Deep Prakash Parasar | International Journal of Botany Studies |
| Diabetes Mellitus And Covid-19: Understanding The Association In Light of Current Evidences | Saikat Sen, Raja Chakraborty, Pratap Kalita, Manash Pratim Pathak | World Journal of Clinical Cases |

Research Outcomes

| Publication Title | Author-name | Journal-name |
|---|---|--|
| A Comparative Study To Assess The Knowledge And Attitude of Children Regarding Television Viewing And Its Impact In Selected Urban And Rural Schools, Kamrup(M) Assam | Prof. Nirmali Gogoi, Prof. Gitumoni Konwar, Pyllongiaki Bareh, Anusuya Goswami, Alonka | Turkish Journal of Physiotherapy And Rehabilitation |
| Ex-Situ Evaluation of Endophyte Colletotrichum Siamense Isolated From Capsicum Annuum L. of Assam Against Chili Pathogen Fusarium Lichenicola | Indrani Barman, Dr. Jyotchna Gogoi, Dr. Ananta Madhab Dutta | International Journal of Biology, Pharmacy And Allied Sciences |
| guest Satisfaction In Relation To Quality, Taste And Presentation of Food And Beverages In The Star Category Hotels of Guwahati. | Mr. Ashim Barman, Dr. Bhola Chourasia, | Design Engineering |
| Evaluation of Therapeutic Effect of Premna Herbacea In Diabetic Rat And Isoverbascoside Against Insulin Resistance In L6 Muscle Cells Through Bioenergetics And Stimulation of Jnk And Akt/Mtor Signaling Cascade | Bhaswati Kashyap, Narayan Chandra Talukdar, Sagar Ramroo Barge, Simanta Bharadwaj, Barsha Deka, Seydur Rahman, Aparajita Ghosh, Prasenjit Manna, Partha Pratim Dutta, Yunus Sheikh, Raghuram Kandimalla, Suman Kumar Samanta, Joshodeep Boruwa, Shilpi Saikia, Deepsikha Swargiary, Parul | Phytomedicine |
| Nutrient Content of Musa Balbasiana Seeds And Flowers: Qualitative Estimation And Proximate Analysis | Daisy Sharma, Dr. Manash Pratim Sarma, Chandana C Baruah, Pameena Narzary, Ritimita Devi, | International Journal of Botany Studies |
| In-House Reverse Transcriptase Polymerase Chain Reaction For Detection of Sars-Cov-2 With Increased Sensitivity | Manash Jyoti Kalita, Subhash Medhi, Manash Jyoti Kalita, Kalpajit Dutta, Gautam Hazarika, Ridip Dutta, Simanta Kalita, Partha Pratim Das, Manash P Sarma, Sofia Banu, Md Ghaznavi Idris, Anjan Jyoti Talukdar, Sangitanjan Dutta, Ajanta Sharma, Subhash Medhi | Scientific Report |
| A Ripple Effect of Covid-19 Pandemic On Shortage of Medicinal Products And Its Impact On Patient Care | Biplab Kumar Dey, R. Amin, E. Myrsing, F. Alam, Md. M. Rahman, P. Gogoi And T. Afroz | International Journal of Applied Pharmaceutics |
| Evaluation of Anti-Oxidant And Anti-Pyretic Activity of Leaf of Dendrobium Chrysanthum | M. Basak, M. A. Laskar, P. Gogoi, S. H. Ansari, Biplab Kumar Dey And S. Sen | Journal of Pharmaceutical Research International |
| Assessing Pollution Removal Efficiencies of Some Selected Parameters By Applying Different Remediation Techniques For Petroleum Oily Sludge | Aninditan Bhattacharya, Dixita Phukan, Sunandan Baruah, Arnab Sarkar, Prabal Sarkar | Environmental Challenges |
| Isolation of Mycoflora Present In The Rhizosphere of Cowpea Grown From Stored Seeds | Anjan Kumar Sarma, Anjan Kumar Sarma, | International Journal of Biology, Pharmacy And Allied Sciences |
| Ethno Medicinal Plants Used For Wound Healing Properties In Tinsukia District, Assam: A Comprehensive Review | Pal Gogoi, Sajidul Hoque Ansari, Moksood Ahmed Laskar, Saikat Sen, Biplab Kumar Dey, Rejwan Ahmed Choudhury, Republica Borgohain | Journal of Pharmaceutical Research International |
| Hydrological-Hydrodynamic Nexus For Evaluation of Fish Habitat Suitability In The Bhogdoi River, India | Anupal Baruah, Arup Kumar Sarma, Gilbert Hinge | Journal of Hydrologic Engineering |

Research Outcomes

| Publication Title | Author-name | Journal-name |
|--|--|--|
| Biodiversity survey on indigenous varieties of solanum melongena l in darrang district of assam, india. | Dr Prasenjit bhagawati , Dr Prasenjit bhagawati , S. Akhtar, J. Das, M. Borah, A. Kar | Research And Reviews Journal Of Agriculture And Allied Sciences |
| Biometabolites of wild variety of coccinia grandis (l) voigt: an ethno claimed plant of north east india | Gunamoni Das , Gunamoni Das , N/A | Research Journal Of Agricultural Sciences An International Journal |
| Assessment of market potential and survey of various available vegetable species of fabaceae family in dhubri district of assam | Prasenjit Bhagawati , Prasenjit Bhagawati , Gunamoni Das, Manash P. Sarma, Rukhsar Sultana, Rekha Bora | Research Journal Of Agricultural Sciences - An International Journal |
| Free convective mhd flow past a vertical plate through a porous medium with ramped wall temperature and concentration | Sujan Sinha , mausumi mahanta , | Journal Of Mathematical And Computational Science |
| Estimation of glycemic index of single and multiple blend nutraceutical biscuits | Daisy Sharma , Daisy Sharma , Mamoni Das, Mridula Barooah, and Chandana Choudhary Baruah | Journal Of Postharvest Technology |
| Fungi present in stored cowpea seeds and its effect on seed quality | Anjan Kumar Sarma , Anjan Kumar Sarma , | Research Journal Of Agricultural Sciences |
| A n empirical study on health infrastructure of india to fight against c ovid-19 | Manash Pratim Kashyap , Manash Pratim Kashyap , | The Journal Of Oriental Research Madrase |
| Value added food products incorporating musa balbisiana- a key to nutrition security | Radali Duarah , Manash Sarma , Daisy Sharma, Radali Duarah | Journal Of Postharvest Technology |
| Role of ict in teaching and learning mathematics – an overview | Devajit Sarmah , Devajit Sarmah , Gunendra Chandra Das, Manash Pratim Kashyap | Journal Of Critical Reviews |
| Indigenous medicinal plants of tripura used by the folklore practitioners for the treatment of bone fractures | Gunamoni Das , Gunamoni Das , Anjan Kumar Sarma, NitulJyoti Das, Prasenjit Bhagawati, R. K. Sharma | International Journal Of Life Science And Pharma Research |
| A review on ethanobotanical survey of medicinal plants against microbes involved in diabetic foot ulcer | Dr. Nayan Talukdar , Dr. Nayan Talukdar , Karabi Das, Indrani Barman | Journal Of Diabetology |
| Methanolic Extract of Lysimachia Candida Lindl. Prevents High-Fat High-Fructose-Induced Fatty Liver in Rats: Understanding the Molecular Mechanism Through Untargeted Metabolomics Study | Parul Kamboj , , Parul Kamboj , Soumalya Sarkar, Sonu Kumar Gupta, Neema Bisht, Deepika Kumari , Md. Jahangir Alam , Sagar Barge, Bhaswati Kashyap, Barsha Deka , Simanta Bharadwaj, Seydur Rahman , Partha Pratim Dutta, Narayan Chandra Talukdar | Frontiers In Pharmacology |
| Antimicrobial activity of the crude extracts of Houlttuynia cordata and Centella asiatica on some human gut microflora | Madhusmita Bhagawati , Rajeev Sarmah , Hazarika N K | International Journal Of Ayurvedic Medicine |
| Microbes in human oral cavity: a review | Rajeev Sarmah , Rajeev Sarmah , Kangjam R. Devi, Reyaz A. Khan | Reviews In Medical Microbiology 2021 |
| Comparision of phytochemical and biochemical profiling of two widely consumed succulent bamboo shoot variety of assam | Ritismita Devi , Dr. Manash Pratim Sarma , Sony Deka Shanaj Yasmin Borborah | Research Journal Of Agricultural Sciences (An International Journal) |
| Molecular Modeling of HEV Core Protein and Active Compounds from Northeast Folk Medicine | Nibadita Das , Manash Pratim Sarma , Partha Pratim Kalita, Minakshi Bhattacharjee | Journal Of Biochemical Technology |

Research Outcomes

| Publication Title | Author-name | Journal-name |
|---|--|---|
| Role of micropropagation for propagating medicinal plant bacopamonnieri l | Dr. Mrinal Kumar Das , , | International Journal Of Aquatic Science |
| In-silico screening for identification of potential inhibitors against SARS-cov-2 transmembrane serine protease 2 (TMPRSS2) | Sagar Barge , , Narayan Chandra Talukdar | European Journal Of Pharmaceutical Sciences |
| Effect of multiple doses of N-methyl-N-nitrosourea, an end product of methylguanidine (found in processed food), on the fertility of female Swiss albino mice | Raghuram Kandimalla , , Narayan C. Talukdar | Heliyon |
| Molecular modelling of hev core protein and active compounds from north east folk medicine. | Nibadita Das , Manash Pratim Sarma , Partha Pratim Kalita, Minakshi Bhattacharjee | Journal Of Biochemical Technology |
| Effect of garlic and ginger aqueous extract on mitotic index of onion root tips grown in pesticide containing water' | Karabi Das , Jyotchna Gogoi , Papia Dutta | International Journal Of Pharmaceutical Sciences And Research (IJPSR) |
| A comprehensive study of medicinal plants with antidiabetic properties | Raruk Alam, Ruhul Amin, Mohidul Islam, Republica Borgohain, Moidul Islam Judder and Aswini kumar Sethi | Journal Of Pharmaceutical Research International |
| Protective effect of natrium diethyldithiocarbamate trihydrate (nddct) on lead induced neurodegeneration in rats | Sudhir Kumar , R Chakraborty , Harikesh Maurya, Sandeep, Saikat Sen | Indian Journal Of Pharmaceutical Education And Research |
| Transition metal (ii) complexes of hydrazones derived from tetralone: synthesis, spectral characterization, in vitro antimicrobial and cytotoxic studies | J. Devi , D. Kumar , S. Sharma ¹ , S. Kumar, D. K. Jindal, P. P. Dutta | Research On Chemical Intermediates |
| A comprehensive review on natural products and anti-inflammatory activity | F. Alam , R. Amin , Biplab Kumar Dey | Journal Of Pharmaceutical Research International, (Past Name: British Journal Of Pharmaceutical Research) |
| Exploration of bryophytes for its therapeutic potential | B. P. Sahu , B. P. Sahu , B. Meher and Biplab Kumar Dey | Research Journal Of Pharmacy And Technology |
| A review on nano particle: types, preparation and its characterization | A. Choudhury , R. E Laskar , D. Deka, S Saha, B K DEy | Research Journal Of Pharmacy And Technology |
| Phytochemical screening and anthelmintic activity of atropisulaltilis extract | K Bhattacharya , K Bhattacharya , A. Bhattacharjee, N. R. Chanu, Biplab Kumar Dey and C. M. Devi | Research Journal Of Pharmacy And Technology |
| Preparation and validation user-based patients information leaflets (pils) for copd patients in a regional language- a prospective observational study | Ruhul Amin , Ruhul Amin , Biplab Kumar Dey, Suhaj A & Mohan K Manu | International Journal Of Pharmaceutical Investigation |
| Ethno medicinal plants used for aphrodisiac activity in north-east, india | Md Rejwan Ahmed Choudhury , Md Rejwan Ahmed Choudhury , Mrinmoy Basak | Journal Of Pharmaceutical Research International |
| A comprehensive mini review on co-crystallization process | Ananga Mohan Das , ruhul amin , Satyabrat Sarma , Biplab Kumar Dey & Faruk Alam | Journal Of Pharmaceutical Research International |

Research Outcomes

Journal Publications

| Publication Title | Author-name | Journal-name |
|--|---|---|
| "Phytochemical screening and anthelmintic activity of artocarpus altilis extraurvey of antidiabetic plants and preliminary evaluation of antioxidant, hypoglycemic activity maesa indica leaves, a folk antidiabetic plant of manipur, india | Kunal Bhattacharya , Kunal Bhattacharya , Atanu Bhattacharjee, Nongmaithem Randhoni Chanu, Biplab Kumar Dey, Chanam Melody Devi | Research Journal Of Pharmacy And Technology |
| An ethnomedicinal survey of antidiabetic plants and preliminary evaluation of antioxidant, hypoglycemic activity maesa indica leaves, a folk antidiabetic plant of manipur, india | Raja Chakraborty , Raja Chakraborty , Saikat Sen, Nongmaithem Randhoni Chanu, Akoijam Bishaljit Singh, Crescent Lyngkhoi, Sanwat Kharlyngdoh, Pratap Kalita | https://www.eurekaselect.com/article/104971 |
| A review on nanoparticle: types, preparation and its characterization | Chitralkakha Kakati , , Deboja Sharma , Abhijit Dutta , Minakshi Bhattacharjee And Deepshikha Baruah | Research Journal Of Pharmacy And Technology |
| Ayurveda in management of side effects of oncotherapy | S. Sarkar , S. Sarkar , A. Choudhury and Biplab Kumar Dey | Indo Global Journal Of Pharmaceutical Sciences |
| District-level assessment of changes in extreme rainfall indices in barak and other basins in indian himalayan states: risks and opportunities | Dr. Gilbert Hinge , Mriganka Mazumdar , Saikat Deb, Mriganka Mazumdar | Modeling Earth Systems And Environment |
| Landslide susceptibility zonation with special emphasis on tectonic features for the occurrence of landslides in lower indian himalaya | Dr. Ritu Raj Nath , Prof. Ajanta Goswami , M.L. Sharma, Ajanta Goswami, Sweta Kumari, Naveen Pareek | Journal Of The Indian Society Of Remote Sensing |
| Multiple-relaxation-time lattice boltzmann analysis of entropy generation in a hot-block-inserted square cavity for different prandtl numbers | Dhrubajyoti Kashyap , Dhrubajyoti Kashyap , | International Journal Of Thermal Sciences |
| Performance evaluation of intermediate public transport: a case study | Dr. Saikat Deb , Dr. Saikat Deb , | International Journal Of Advanced Research In Engineering And Technology |
| Impact of main boundary thrust (mbt) on landslide susceptibility in garhwal himalaya: a case study | Dr. Ritu Raj Nath , Dr. Ritu Raj Nath , Mr. Nani Das, Dr. Neelima Satyam D | Indian Geotechnical Journal |
| Surface morphology and effect of cutting force and temperature in formation of the white layer during hard machining | Dr. Sanjib Kr Rajbongshi , Dr. Sanjib Kr Rajbongshi , Dr. Deba Kumar Sarma | International Journal Of Machining And Machinability Of Materials |
| Review on the role of macular edema in retinopathy, blindness and automated diagnosis methods | Manash Barman , Dr. Bismita Choudhury , Debashish Deb, Kamrul Hassan | Eai Transactions On Pervasive Health And Technology |
| An approach for prediction of flood hydrograph at outlet of an ungauged basin using modified dynamic wave model | Biswadeep Bharali , Biswadeep Bharali , U.K.Misra | Ish Journal Of Hydraulic Engineering |
| Spiritual intelligence among the nursing college students: a study based on prvae nursing colleges in guwahati city | Dr Asha Sarma , , | Kala : The Journal Of Indian Art History Congress |
| A study on the relationship between anxiety and adjustment among male and female research scholars | Dr Asha Sarma , Dr Manidipa Baruah , | Journal Of The Maharaja Sayajirao University Of Baroda |

Research Outcomes

| Publication Title | Author-name | Journal-name |
|---|--|--|
| Environmental awareness and attitude among male and female adolescent students of guwahati city: a comparison between government and private school | Dr. Bijoy Das, Dr. Asha Sarma | Journal Of Education Rabindra Bharati University |
| Changing faces and contemporary issues of social work profession in india | Dr. Bijoy Das , | Journal Of The Maharaja Sayajirao University Of Baroda |
| A study on women's vulnerabilities to hiv/aids with special reference to barak valley of assam | Dr. Bijoy Das , , | Journal Of Oriental Research Madras |
| Problems and prospects of tourism in newly created charaideo district of assam | Luhit Buragohain , Dr. Samannoy Baruah , | Kala : The Journal Of Indian Art History Congress |
| Evolutionary framework of hierarchy of effects models- exploring relevance in the shifting of customer path | RISHI CHAKRAVARTY , RISHI CHAKRAVARTY , NRIPENDRA NARAYAN SARMA | Vilakshan-Ximb Journal Of Management |
| Impact of social networking sites on the youth of assam | Geetam Goswami , Seema Sharma , | Elementary Education Online |
| A study on the challenges of hr professionals due to social and emotional changes, post covid 19 scenario | Supritee Das , Sangeeta Das | Wesleyan Journal Of Research |
| Changes in role requirement of indian wives durinf covid 19 scenerio with reference to financial literacy | Ms. Pranami Chakravorty , Dr. Seema Sarma | Wesleyan Journal Of Research |
| Problems and prospects of tourism in jorhat - the fifth capital city of ahoms | Dr. Ranjit Kumar Sarmah , Luhit Buragohain | Kala - The Journal Of Indian Art History Congress |
| Does affective appeal in television advertisement of durable goods influence millennials? | Rishi Chakravarty | IUP Journal Of Marketing Management |
| A study of trend of price/net operating revenue and earnings yield of selected public sector companies in india | Dr Jyoti prasad Kalita , Dr. Ravi Gupta , Dr. Preeti Gupta | Turkish Journal Of Computer And Mathematics Education |
| Protein profile of human saliva as a predictive and prognostic tool for oscc in tamol chewer's population in assam | L. Lepcha , Lhakit Lepcha , Manash P Sarma, Wankupar wankhar | Asian Pacific Journal Of Cancer Prevention |
| A study on nutrient content of few dry fish in mangaldoi, assam | Chitralkha Kakati , , Deboja Sharma , Abhijit Dutta , Minakshi Bhattacharjee And Deepshikha Baruah | Uttar Pradesh Journal Of Zoology |
| A comparative study on efficacy of Ballistic Stretching versus Modified Hold Relax Technique in increasing Hamstring Flexibility | Abhijit Dutta , Abhijit Dutta , NIL | International Journal Of Life Science And Pharma Research |
| Article: a comparative study to find the effectiveness of core muscles activation over conventional exercises in subjects with mechanical low back pain | Karran Yangma , Dr. Abhijit Dutta (PT) , Dr.Santosh Rajak(PT) , Dr.Trishna Saikia Baruah(PT) | International Journal Of Life Science And Pharma Research(Ijlpr) |
| To Study the effects of the PNF Stretching and Stabilization Exercises on the improvement of Pain and Spastic Shoulder in Hemiplegic Patients: A Comparative Study. | Larissa Dhar , Abhijit Dutta , Trishna Saikia Baruah | International Journal Of Life Science And Pharma Research |

Research Outcomes

Journal Publications

| Publication Title | Author-name | Journal-name |
|--|--|---|
| A study on effectiveness of corrective exercise over conventional exercises in individuals suffering from trapezitis | Mathew Lalruatlana , Abhijit Dutta , Abhijit Dutta | Indian Journal Of Forensic Medicine And Toxicology |
| To Study the Efficacy of Soft Tissue Release Manual Therapy Techniques on improvement of Chest Expansion and Pulmonary Function- FEV1/FEV6 in Patients with moderate COPD.â€ | Abhijit Dutta , Abhijit Dutta , NIL | International Journal Of Life Science And Pharma Research |
| Association of x-ray repair cross-complementing group 1 arg399gln polymorphisms with the susceptibility to develop oral squamous cell carcinoma in tamol chewer's population in assam, india | L. Lepcha , Lhakit Lepcha , Manash P Sarma | Indian Journal Of Dental Sciences |
| To study the effects of deep neck flexor strengthening exercises and mckenzie neck exerciseson smart phone users suffering from neck pain: a comparative study | Buru Yana , Abhijit Dutta , Abhijit Kalita | International Journal Of Life Science And Pharma Research |
| Traditional medicinal plants used to treat the neurodegenerative disorder alzheimer's: a review | Moitrayee Devi , Arnabjyoti Deva Sarma , | International Journal Of Botany Studies |
| A review on the plant secondary metabolites with special context with North East India | Devi Ritismita, Manash Pratim Sarma | International Journal of Advances in Applied Sciences |
| Evaluation of anti-oxidant and anti-pyretic activity of fruits of garcinia pedunculata | Mrinmoy Basak, Moksood Ahmed Laskar, Priyanka Goswami | Research Journal of Pharmacy and Technology |
| Synthesis, characterization, and evaluation of antibacterial efficacy of rhamnolipid-coated zinc oxide nanoparticles against Staphylococcus aureus | Chandana Malakar, Kaustuvmani Patowary, Suresh Deka & Mohan Chandra Kalita | World Journal of Microbiology & Biotechnology |
| Application of Precision Livestock Farming for Improved Goat Management and Production | Deepika Sharma, Jayati Mishra, Nibedita Talukdar | Revista Electronica de Veterinaria |
| Beneficial effect of the methanolic leaf extract of Allium hookeri on stimulating glutathione biosynthesis and preventing impaired glucose metabolism in type 2 diabetes | Barsha Deka , Sagar Ramrao Barge , Simanta Bharadwaj , Bhaswati Kashyap , Prasenjit Manna , Jagat Chandra Borah , Narayan Chandra Talukdar | Archives of Biochemistry and Biophysics |
| Transmission electron microscopy of the liver mitochondria of N-Nitrosodibutylamine-treated mice | Sthiti Porna Dutta , Kundal Neog , Anis Alam | Microscopy Research and Technique |
| Inducible resistance to clindamycin in staphylococcus aureus and methicillin-resistant staphylococcus aureus isolated from clinical samples in tertiary care hospitals in Guwahati City | Singh, Shila Kumari; Bhattacharjee, Minakshi; Unni, Balagopalan Kashyap, Rajpal Singh | Medical Journal of Dr. D.Y. Patil Vidyapeeth |
| An Analytical Approach on Enzymatic Degradation of Biochemical Components by Isolated Food Contaminant Pathogens from Sugarcane Juice of Street Salesman | A.P. Chowdhury, A. Das, R.R. Singh, H. Goswami, M.P. Bhuyan | Asian Journal of Dairy and Food Research |

Research Outcomes

Journal Publications

| Publication Title | Author-name | Journal-name |
|---|--|--|
| Landslide Susceptibility Zonation With Special Emphasis on Tectonic Features for Occurrence of Landslides in Lower Indian Himalaya | Ritu Rituraj Nath | Journal of the Indian Society of Remote Sensing |
| A ripple effect of covid-19 pandemic on shortage of medicinal products and its impact on patient care | BIPLAB KUMAR DEY, EFFICIENCY MYRSING, RUHUL AMIN, FARUK ALAM | International Journal of Applied Pharmaceutics |
| Potential inhibitors for FKBP51: an in silico study using virtual screening, molecular docking and molecular dynamics simulation | Narayan Chandra Talukdar | Journal of Biomolecular Structure and Dynamics |
| Biosynthesis and characterization of Gynocardia odorata R. Br. mediated silver nanoparticles and evaluation of its antimicrobial activity | Dipjyoti Kalita, Himanshu Rajbongshi , Nilakshee Devi , Mohan Chandra Kalita & Sunandan Baruah | Plant Science Today |
| Diabetes mellitus and COVID-19: Understanding the association in light of current evidence | Saikat Sen, Raja Chakraborty, Pratap Kalita, Manash Pratim Pathak | World journal of clinical cases |
| Phytochemical screening and anthelmintic activity of artocarpus altilis extract | Kunal Bhattacharya, Atanu Bhattacharjee, Nongmaithem Randhoni Chanu, Biplab Kumar Dey, Chanam Melody Devi | Research Journal of Pharmacy and Technology |
| Pharmacognostic profile and comparative in vitro anti-inflammatory activity study of ethanomedicinal plants of North East India | SM Abdul Aziz Barbhuiya, SH Victoria Devi, Ajay Kakati, Rejwan Ahmed Choudhury, and Muslek Uddin Mazumder | Pharmacognosy Journal |
| Effect of planned teaching program regarding knowledge on detection and prevention of postpartum hemorrhage among b. sc. nursing students in selected nursing colleges, Guwahati, Assam | Ruth Lalhmingshang, | Indian Journal of Community Medicine |
| Comparative study of Phytochemicals and anti-microbial activity of K. Pinnata and P. Benghalensis | Suheli Choudhury , Minakshi Bhattacharjee , Dhiman Chandra Paul, Manash Pratim Sarma | International Journal Of Botany Studies |
| .Phytochemical analysis and antimicrobial activity of oldenlandia corymbosa. | Maya Konwar , Maya Konwar , Dr Manash Pratim Sarma, Dr Prasenjit Bhagawati | Sambodhi |
| Homotopy perturbation method for mhd boundary layer flow over a moving vertical plate in presence of heat and mass transfer | Sujan Sinha , Manoj Kr. Sarma , | South East Asian J. Of Mathematics And Mathematical Sciences |
| Consequence of chemical reaction on an unsteady mhd radiative flow past an erect porous plate with diffusion-thermo (dufour effect) | Sujan Sinha , mausumi mahanta , nil | Journal Of Rajasthan Academy Of Physical Sciences |
| Critical parameters of teaching and learning in mathematics: a survey | Mrinal Sarma , Mrinal Sarma , Gunendra Chandra Das, Manash Pratim Kashyap | Journal Of Critical Reviews |
| A minireview on cynoglossum l. (boraginaceae) | Mitali Baruah , Minakshi Bhattacharjee , | International Journal Of Botany Studies |
| Characterization of β -cryptoxanthin and other carotenoid derivatives from rhodotorula taiwanensis, a novel yeast isolated from traditional starter culture of assam | Deep Prakash Parasar , Hridip Kumar Sarma , Elancheran Ramakrishnan, Senthamarai Kannan Kabilan, Jibon Kotoky, | Chemistry And Biodiversity |

Research Outcomes

| Publication Title | Author-name | Journal-name |
|---|--|--|
| Bio exploration for human welfare- an integrative approach | Dr Manash Pratim Sarma , Dr. Manash Pratim Sarma , Dr Nayan Talukdar and Bhriganka Bharadwaj | Ecology, Environment And Conservation |
| A quantification of consideration set size of rural and urban customers: a bayesian approach | Manash Pratim Kashyap , Manash Pratim Kashyap , Seema Sarma, Mrinal Kanti Deb | Journal Of Critical Reviews |
| A study of ghost dark energy fluid | Tazmin Sultana , Manash Pratim Kashyap , Manash Pratim Kashyap, Gunenchandra Das | Journal Of Critical Reviews |
| Models for consumer's brand categorization process: a comparative study between rural and urban customers | Nibha Barman , Manash Pratim Kashyap , Manash Pratim Kashyap, Gunen Chandra Das | Journal Of Critical Reviews (Jcr) |
| Phytochemical analysis and antimicrobial activity of vitex negundo | Pompy Medhi , Dr. Manash Pratim Sarma , 1 , Ritimita Devi and Minakshi Bhattacharjee | International Journal Of Botany Studies |
| Effect of stretching parameter in a non-linear mhd flow close to stagnation point | Sujan Sinha , Manoj Kumar Sarma , | Journal Of Mathematical Computational Science |
| Variation in biosynthesis of an effective anticancer secondary metabolite, mahanine in Murraya koenigii, conditional on soil physicochemistry and weather suitability | Raghuram Kandimalla , , Narayan C. Talukdar | Nature |
| Anthelmintic and analgesic activities of trachyspermum khasianum h. Wolff | Ananta Choudhury , Innocent Sutnga , Balari Marbaniang, Gautom Hazarika, Priyanka Goswami | Journal Of Pharmacopuncture |
| Evaluation of in vitro anti-diabetic and anti-oxidant potential of acorus calamus rhizome | R Chakraborty , Himel Barakoti , Raja Chakraborty, Saikat Sen, Fakaruddin Ali Ahmed, Himel Barakoti | Indo Global Journal Of Pharmaceutical Sciences |
| Formulation and evaluation of gastro retentive floating tablets | Jahnabi Sarmah , Jahnabi Sarmah , Ananta Choudhury | Research Journal Of Pharmacy And Technology |
| Pharmacognostic and preliminary phytochemical screening of trachyspermum khasianum h. Wolff | A. Choudhury , A. Choudhury , B. Marbaniang, I. Sutnga, G. Hazarika, P. Goswami and Biplab Kumar Dey | Indian Journal Of Natural Products And Resources |
| Pharmacognostic profile and comparative in vitro antiinflammatory activity study of ethnomedicinal plants of north east india | SM Abdul Aziz Barbhuiya , SH Victoria Devi , Ajay Kakati, Md Rejwan Ahmed Choudhury, Muslek Uddin Mazumder | Pharmacognosy Journal |
| Design, synthesis and pharmacological evaluation of new thiazole derivatives as anthelmintic agents. | G. Sai Krishna , K. Sirisha , D. Kumara Swamy, K. Sai Santhoshi, v K. Durga Prasad | International Journal Of Pharmaceutical Sciences And Nanotechnology. |
| Dry sliding wear behaviour of bamboo/basalt hybrid composite | Pulakesh Chetia , Pulakesh Chetia , Dr. S. Samanta | Advances In Materials And Processing Technologies |
| RELATIONSHIPS IN THE DIASPORIC MILIEU: A READING OF JHUMPA LAHIRI'S SELECTED SHORT STORIES FROM INTERPRETER OF MALADIES | Deepali Borthakur , Shilpisudha Goswami , Dr. Sagarika Mahanta Das,, Dr. Papari Kalita | Journal Of Critical Reviews (Jcr) |
| Umanada devalaya: an experience beyond religious tourism | Dr. Sudhanshu Verma , Dr. Sudhanshu Verma , Dr. Bhola Chourasia | Shodh Sanchar Bulletin |

Research Outcomes

Journal Publications

| Publication Title | Author-name | Journal-name |
|--|---|---|
| A study to Assess the Internet Addiction and its Impact on Health of Adolescents in Selected Higher Secondary School , Udalguri, Assam, India | Nirmali Gogoi , Lakhimi Gogoi , Nishamani Baishya | Wesleyan Journal Of Research |
| Angiotensin-converting enzyme 2 (ace2): covid 19 gate way to multiple organ failure syndromes | , Arbind kumar Choudhary , Sundareswaran loganathan, Maheshkumar Kuppasamy, Wankupar Wankhar, Krishna Rao Gurugubelli , Vidyashree Hodagatta Mahadevappa, Lhakit Lepcha | Respiratory Physiology & Neurobiology |
| Rice - not just a staple food: a comprehensive review on its phytochemicals and therapeutic potential | Saikat Sen*, Raja Chakraborty, P Kalita | Trends in food science & technology |
| Synthesis and pharmacological activity of some pyrazolone derivatives | Dr. Faruk Alam, Mr. Ruhul Amin | Journal of pharmaceutical research international |
| Role of ICT in teaching and learning mathematics an overview | Debajit Sarma, Gunendra Ch Das, Manash pratim Kashyap | Journal of critical reviews |
| Green entrepreneurship: a secured mode of sustainability and its prospects in Assam | Dr. Sweta Sharma Dr. Rajesh Deb Barman Dr. Seema Sharma: Sangeeta Choudhury | International journal of psychosocial rehabilitation |
| Subverting form as a means of resistance: a critical reading of leslie marmon silko's storyteller | Hanifa Rahman, Deepali Borthakur | Journal of critical reviews (jcr) |
| Overview on medicinal uses of exiguous plant curcuma caesia roxb | Chitrallekha Katak , Minakshi Bhattacharjee | International journal of pharmaceutical sciences review and research (int j pharm sci rev res, coden: ijpsrr) |
| Explication of absorbed dose defines radiotherapy - a study of unification | Rangaraj Bhattacharjee, Lakshmi K. Singh, Ananya Bhattacharjee | Materials today: proceedings |
| Metal contamination resulting changes in physico-chemical parameters of surface soil around oil installations of sivasagar district of Assam, India | Nilutpola Dutta Deka, Dr Md Yamin Hassan | Pollution research |
| Characterization of agricultural soil used for rice production of lakhimpur district of Assam, India with special emphasis on few selected anions | Naranarayan Buragohain, Dr Md Yamin Hassan, Arup J.D. Sarma and Anil Goswami | Ecology, environment and conservation |
| Production of bio-oil from coir pith via pyrolysis: kinetics, thermodynamics, and optimization using response surface methodology | Nabajit Dev Choudhury, Nilutpal Bhuyan, Neonjyoti Bordoloi | Biomass conversion and biorefinery |
| A review on novel coronavirus 2019(covid-19) outbreak | Moitrayee Devi , Arnabjyoti Deva Sarma | Journal of advanced scientific research |
| Magnetically recoverable copper ferrite catalyzed cascade synthesis of 1,3-dimethyl-6-nitro-5-arylpyrido[2,3-d]pyrimidine-2,4(1H,3H)-diones under microwave irradiation and solvent-less condition | Amar Jyoti Bhuyan, Pubanita Bhuyan, Bornali Boruah, Lakhinath Saikia | Applied Organometallic Chemistry |

Research Outcomes

Books/Book Chapters

| Publication Type | Publication Title | ISBN/ISSN / Digital Object Identifier (doi) Number | Author/s Name |
|------------------|--|--|--|
| Book | Practical Handbook of Advanced Pharmaceutical Organic Chemistry | 978-81-938138-7-4 | Jithendar Reddy Mandhadi, Narender Boggula, Dr. M. Ram Mohan, Deepika B |
| Book | Laboratory Techniques in Biological Sciences | 978-93-90417-82-7 | Dr. Manash Pratim Sarma, Dr. Minakshi Bhattacharjee, et al. |
| Book | Emerging Trends in Science and Technology | 9788194567509 | S H Islam,Rajkumar Kakati,Amar Das, et al. |
| Book | Handbook of Popular Literature | 9789388937788 | Deepali Borthakur |
| Book | Evidence Based Validation of Traditional Medicines A comprehensive Approach | 978-981-15-8127-4 | SC Mandal, Raja Chakraborty, Saikat Sen |
| Book | A Patient Education Handbook (Hypertension) :Know Your Disease beyond the Basics | 9781685098193 | Ruhul Amin |
| Book | SAMAYAN | 978-93-90919-48-2 | Dr. Pankaj Namasudra, Dr. Afzalur Rahman, Dr. Montu Kr. Borah, Dr. Deep Prakash Parasar, Dr. Shiromoni Bhuyan, Dipti Das |
| Book | A Review On Quinazoline Heterocycles: A Pharmacophoric Scaffold | 978-93-90655-40-3 | Dr. Faruk Alam,Dr. Biswajit Dash,Repunjoy Bordoloi,Kunal Bhattacharya |
| Book | A Perspective on Mathematics Education in Context of India | 9781638323617 | Dr Gunendra Das |
| Book chapter | Food grains of India: A brief note on their therapeutic potential | 978-981-13-7247-6 | Saikat Sen |
| Book chapter | Cultivation of medicinal plants: Special reference to important medicinal plants of India. | 978-981-13-7247-6 | Tridip Bhattacharjee*, Saikat Sen, Raja Chakraborty, PK Maurya, A Chattopadhyay |
| Book chapter | Influence of S-Commerce on Consumer Buying Behaviour-Findings from Literature Review | ISBN:978-81-950384-8-0 | RISHI CHAKRAVARTY |
| Book chapter | Separation of Amino Acids using Two Dimensional Paper chromatography | 978-93-90417-82-7 | Ritimita Devi,Dr. Manash Pratim Sarma |

Research Outcomes

Books/Book Chapters

| Publication Type | Publication Title | ISBN/ISSN / Digital Object Identifier (doi) Number | Author/s Name |
|------------------|---|--|--|
| Book chapter | A Review on Cannabis: Its Benefits for Human Health | 978-93-91216-80-1 | Jasmin Islam, Daisy Sharma |
| Book chapter | Physiotherapy and Cannabis | 978-93-91216-80-1 | Abhijit Kalita, Abhijit Dutta, Santosh Rajak |
| Book chapter | Nanomaterials for aquatic contamination sensing and remediation | 978-0-12-821141-0 | Arnab Kumar Sarkar, Dipjyoti Kalita, Sunandan Baruah |
| Book chapter | An ethnobotanical survey of medicinal plants used by ethnic people of Thoubal and Kakching District, Manipur, India | 978-981-13-7247-6 | Raja Chakraborty*, Saikat Sen, Nongmaithem R Chanu, AB Singh, P Kalita |
| Book chapter | A Practical Guide to Molecular Docking for Non-Bioinformatician Through Autodock 4.2.6 | 978-93-90417-82-7 | Partha Pratim Kalita, Dr. Manash Pratim Sarma |
| Book chapter | Practical Approaches of In- vitro Dissolution Study for the Estimation of Drug Release. | 978-93-90417-82-7 | Dr. Ananta Choudhury |
| Book chapter | Food Analysis | 978-93-90417-82-7 | Dr. Yombom Bam and Dr Ph Vivekanandini Devi |
| Book chapter | Food and feeding habit of Magrognathus aral of Dora beel | 978-93-89940-88-6 | Dr. Snigdha Chakraborty |
| Book chapter | FUNGAL SLIDE CULTURE | 978-93-90417-82-7 | SHILA KUMARI SINGH |
| Book chapter | Separation of components of a colloid solution using centrifuge | 978-93-90417-82-7 | Dr. Snigdha Chakraborty |
| Book chapter | Scientific Basis for Ayurvedic Medicinal Plants Against Alzheimer Disease | 978-981-13-7247-6 | Atanu Bhattacharjee*, Raja Chakraborty, Saikat Sen |
| Book chapter | Maternal and neonatal risk factors of Low Birth Weight in Guwahati metro, Assam, Northeast India: A cross sectional study | 978-93-91215-63-7 | Dr. Nirmali Gogoi |
| Book chapter | Bioconversion of food waste into biogas | ISBN: 978-3-030-61836-0 | Bordoloi, N., Narzari, R., Choudhury. P.K. and Kataki, R. |
| Book chapter | Possibilities of Community Based Eco-Tourism in Jalpaigudi District Under Dooars Region, west Bengal, with Impact of Cultural Background of Tourist | 978-93-90818-74-7 | Apurba Chakraborty, Dr. Santosh Kumar Upadhyay |

Research Outcomes

Books/Book Chapters

| Publication Type | Publication Title | ISBN/ISSN / Digital Object Identifier (doi) Number | Author/s Name |
|------------------|--|---|---|
| Book chapter | An ethnobotanical survey of medicinal plants used by ethnic people of Thoubal and Kakching District, Manipur, India | 978-981-13-7247-6 | Raja Chakraborty*, Saikat Sen, NR Chanu, AB Singh, P Kalita |
| Book chapter | Fixed point of Kannan type set-valued maps defined on sets in complete metric spaces | 978-93-89940-83-1 | Dr. Muchana Neog |
| Book chapter | Some well known fixed point results in complete ultra metric space | 978-93-89940-89-3 | Dr. Muchana Neog |
| Book chapter | Value Addition of Banana (Musa spp.): A Review | 978-93-90541-90-4 | Anita Parajuli and Jasmin Islam |
| Book chapter | HPLC analysis of Plant Extract containing Biologically active Compounds | 978-93-90417-82-7 | Dr. Hirok Jyoti Borah |
| Book chapter | Cloning and Transformation of Foreign DNA Insert in Escherichia Coli DH5± Using Chemical Transformation Method | 978-93-90417-82-7 | Dr. Devabrata Saikia |
| Book chapter | Determination of crude fiber content, Determination of moisture content, Determination of water and oil absorption capacity, Determination of crude protein content and Determination of total mineral content | 978-93-90417-82-7 | Daisy Sharma |
| Book chapter | A Review Study on Nutraceutical and Nutritional Efficacy of Crassocephalum crepidioides | 978-93-90322-11-4 | Sonika Thoudam and Daisy Sharma |
| Book chapter | An ethnobotanical survey of medicinal plants used by ethnic people of Thoubal and Kakching District, Manipur, India | 978-981-13-7247-6 | Raja Chakraborty*, Saikat Sen, NR Chanu, AB Singh, P Kalita |
| Book chapter | Health Benefits of Syzygium cumini (Jamun) Seeds | 978-81-947692-4-8 | Shyamoli Singh and Daisy Sharma |
| Book chapter | Health Benefits of Glycine max (Soybean) | 978-81-947692-3-1 | Mamta Singh and Daisy Sharma |
| Book chapter | A Review Study on Pharmacological Properties and Health Benefits of Prosopis cineraria | Paperback ISBN: 978-93-90322-11-4 E-Book ISBN: 978-93-90322-12-1 | Aarti Sipani and Daisy Sharma |
| Book chapter | Assaying the Predicament of Maternal Health Care in Arunachal Pradesh | 978-81-9472224-5-8 | Dr. Devika Ayekpam |
| Book chapter | Social Work Approaches to HIV/AIDS | 9781-952743-0-7 | Bijoy Das |

Research Publications

| Publication Title | Author-name | Journal-name |
|---|---|--|
| A Comprehensive Review On The Formation of Carcinogens From Food Products With Respect To Different Cooking Methods. | Parikshit Das,Durgaprasad Kemiseti,Farhana Israt Jahan, Sabiha Enam Spriha, Sabreena Chowdhury Raka | Journal of Pharmaceutical Research International |
| A Snp Study of Hsp Gene And Its Protein Modelling In Liver Disease Cases From North East India | Partha Pratim Kalita,Manash Pratim Sarma,Rajeev Sarmah, Manash Pratim Kashyap, Manabendra Nayak, Manash Pratim Sarma | Uttar Pradesh Journal of Zoology |
| Biosynthesis And Characterization of Gynocardia Odorata R. Br.Mediated Silver Nanoparticles And Evaluation of Its Antimicrobialactivity | Dipjyoti Kalita,,Sunandan Baruah | Plant Science Today |
| Swild Edible Mushrooms of Tripura: An Important Source of Livelihood | Gunamoni Das,Gunamoni Das, | International Journal of Botany Studies |
| Perceived Benefits And Risk of Nsaids In Relation To Its Association With Cancer: A Comprehensive Review | Jishu Kalita,Pal Gogoi,Biplab Kumar Dey, Saikat Sen | Journal of Pharmaceutical Research International |
| Nano-Based Soil Conditioners Eradicate Micronutrient Deficiency: Soil Physicochemical Properties And Plant Molecular Responses | Pallabi Das,Satya Sundar Bhattacharya And Sanjay Pratihar,Nayanmoni Gogoi, Shuvasree Sarkar, c Supriya A. Patil, Nazneen Hussain, f Soma Barman, Sanjay Pratihar, Satya Sundar Bhattacharya | Environmental Science: Nano |
| Understanding Culture And Beliefs of A Matrilineal Society Through Folktales: A Study On Garo Tribe | Dr. Sagarika Mahanta Das,, | Indian Journal of Natural Sciences |
| Linking the diversity of yeasts inherent in starter cultures to quorum sensing mechanism in ethnic fermented alcoholic beverages of northeast india | Bhaskar Jyoti Nath , Hridip Kumar Sarma , Deep Prakash Parasar | Frontiers In Sustainable Food System |
| Influence of thermal diffusion on an unsteady mhd chemically reactive flow past a vertical porous plate with ramped temperature* | Kumud Borgohain , Sujan Sinha , | The Journal Of Oriental Research Madras |
| A comprehensive study to understand removal efficiency for cr 6+ using magnetic and activated biochar through response surface methodology | Rumi Narzari , Rupam Katakai , Neonjyoti Bordoloi | Biomass Conversion And Biorefinery |
| Studies on relationship between storage fungi of cowpea and their colonization in the roots | AK Sarma , Anjan Kumar Sarma , Gunamoni Das | International Journal Of Biology, Pharmacy And Allied Sciences |
| Parameters influencing the attitude of students towards learning mathematics and of teachers towards teaching mathematics | Mrinal Sarma , , Gunendra Chandra Das | Journal Of Mathematical And Computational Science |
| Homotopy perturbation analysis in an energy transit problem closed to a stretching surface | Manoj Kumar Sarma , Sujan Sinha | Turkish Journal Of Computer And Mathematics Education |
| Central tendency of annual extremum of ambient air temperatureat silchar | Rinamani Sarmah Bordoloi , Manash Pratim Kashyap , Manash Pratim Kashyap, Dhritikesh Chakrabarty | Kalyan Bharati |

Contribution towards knowledge creation and publication in the form of books

Books/Book Chapters

| Publication Type | Publication Title | ISBN/ISSN / Digital Object Identifier (doi) Number | Author/s Name |
|------------------|--|--|--|
| Book chapter | Gas chromatography | 978-93-90417-82-7 | Dr. Anjan Kumar Sarma |
| Book chapter | Numerical Simulation of Tiered Reinforced Soil Retaining Wall Subjected to Dynamic Excitations | 978-981-15-6233-4 | Seema Kumari, Arup Bhattacharjee |
| Book chapter | IMViC Test | 978-93-90417-82-7 | Rahul Nayak |
| Book chapter | Histological Preparation and Microtomy | 978-93-90417-82-7 | Dr Prasenjit Bhagawati |
| Book chapter | Colum Chromatography: A solution for Mixtures of Compounds | 978-93-90417-82-7 | Ms Indrani Barman and Dr. Nayan Talukdar |
| Book chapter | Measurement of contamination and decontamination procedures | 978-93-90417-82-7 | Arnabjyoti Deva Sarma, Moitrayee Devi |
| Book chapter | The Lethal Effect of Ultraviolet Radiation On Microbial Growth | 978-93-90417-82-7 | Moitrayee Devi, Arnabjyoti Deva Sarma |
| Book | A Review On Quinazoline Heterocycles: A Pharmacophoric Scaffold | 978-93-90655-40-3 | Dr. Faruk Alam, Dr. Biswajit Dash, Repunjoy Bordoloi, Kunal Bhattacharya |
| Book | A Perspective on Mathematics Education in Context of India | 9781638323617 | Dr Gunendra Das |
| Book chapter | Analysis on the Various Food Items Available Commercially from Bamboo Shoot in NE India | 978-81-947692-4-8 | Ritimita Devi, Bishnurat Dutta, Biki Kalita, Manash Pratim Sarma |
| Book chapter | Integrated Risk of Virus Outbreaks | 978-981-15-7678-2 | Gilbert Hinge, Alacrity Muktor, Manish Kumar Goyal, Ravi Kumar Goyal, Mredu Goyal |
| Book chapter | Improvement of Pigment Yield from Yeast Cells Through Enhancement in Cellular Proliferation and Optimization of Solvent Extraction Process | 978-93-90417-82-7 | Dr. Deep Prakash Parasar, Bhaskar Jyoti Nath |
| Book chapter | A Systematic Review on Ethnomedicinal Plants Has Antimicrobial Potential | 978-93-5570-138-1 | Venkateswara Rao Pragada, Swapna Sirikonda, Narender Boggula, Dr. Jithendar Reddy Mandhadi |

Start-ups incubated on the campus

| Name of the start-up | Nature of start-up | Year of commencement | Contact information of the promoters |
|-------------------------|-----------------------------|----------------------|--|
| Bikozee Ecotech Pvt Ltd | Hyperlocal (Green mobility) | 2020-2021 | Mr. Sumit Das, Email: sumitech.das@gmail.com, Phone No: 81198 57375 |
| Duracoat Tech Pvt Ltd | Manufacturing | 2020-2021 | Dr. Bornali Sarma, Email: drbornalisarma@gmail.com, Phone No: 8667691194 |

Five innovative products from Assam down town University

The Faculty of Engineering & Technology, Assam down town university has demonstrated five innovative products at the "Conclave on transforming Meghalaya state through science and technology interventions" organised by North East Centre for Technology Application Research (NECTAR) in Shillong. Three of the products displayed, namely Solar drier, meat smoker, and solar grain drier were developed with financial support from North Eastern Regional Agricultural Marketing Corporation Limited (NERAMAC).



Crop shredder



Nano-Electric Smoker

The other two innovations: crop shredder and multifunctional seed sowing machine were solely developed by the Faculty of Engineering & Technology, Assam down town University. The products displayed were Argo based to transform traditional technique through advanced science & technology interventions. The main objective of the conclave was to share the product concepts to prospective start-up companies. A team from the Faculty of Engineering and Technology including faculty members and students represented AdtU in the two-day Conclave.

Electrical nano Smoker: A electrical Smoker is developed jointly by Assam down town University (AdtU) in collaboration with North Eastern Regional Agricultural Marketing Corporation Limited (NERAMAC). The machine has been developed to provide a smoky flavour as well as a preservative for different meats like pork, Chicken Or fish by generating smoke inside the machine. This machine is benefited in many criteria over the traditional smoking as the traditional way of smoking can lead to the formation of carcinogens and prolonged exposure can cause cancer of the stomach, skin, lungs and others.



Solar Grain Drier



Team of Faculty and Students

Solar Grain Drier: Rice is the most important food crop of the developing world and the staple food of Assam and other states. India is the world's second-largest producer of rice but Assam still cannot produce quality rice despite vast tracts of fertile land and the existence of commercial viability of agriculture in the North-Eastern states. According to FCI, the meagre procurement of Assam rice is that it has higher moisture content as FCI recommended maximum moisture content of 17%, but moisture content in Assam rice is 22%. To overcome such problems while drying rice in Assam or north eastern states, forced convection based Solar Grain Drier has been designed as shown in Figure. The goal of Solar Grain Drier is to reduce the moisture content in grains to meet the recommended levels for safe, long-term storage and movement.

List of patents filled/published/granted

| Name of the Teacher | Patent Number | Title of the patent | Year of Award / publish of patent |
|--------------------------|---------------|--|-----------------------------------|
| Dr.. Jyotismita Talukdar | 202131023576 | Agro Fly: A Novel Insect Drone For Crop Monitoring And Surveillance | 18/6/2021 |
| Mr.. Manash Jyoti Borah | 201831045232 | System and Method for Double spot Friction Stir Welding and Double spot Zigzag Friction Stir Welding | 15/1/2021 |

No. of Students enrolled PhD with fellowship in 2020-2021

| Type of Fellowship | No. of Students |
|-----------------------------------|-----------------|
| Institutional Research Fellowship | 8 |
| Junior Research Fellowship | 3 |
| Research Associate | 1 |

Adtu's Consultancy- a way of Revenue

| Name of the consultant | Name of consultancy project | Consulting/Sponsoring agency with contact details | Revenue generated (INR in Lakhs) |
|--|--|---|----------------------------------|
| Dr. Sunandan Baruah | Development of a Nanotechnology based solar powered grain dryer” | North Eastern Regional Agricultural and Marketing Corporation, Guwahati (A Government of India Undertaking) | 0.8 |
| Dr. Sunandan Baruah | Development of a Nanotechnology based electric smoker | North Eastern Regional Agricultural and Marketing Corporation, Guwahati (A Government of India Undertaking) | 1.9 |
| On behalf of Assam down town University, Mr. Joutishman Dutta (Managing Trustee) | Providing educational services by implementing the National Skill Qualification Framework (NSQF) for (Healthcare Trade) in 96 Govt. Schools in Assam | Rashtriya Madhamik Shiksha Abhiyan, Assam | 265.23 |
| On behalf of Assam down town University, Mr. Joutishman Dutta (Managing Trustee) | Providing skill training and education to the minority peoples (seekho aur kamao) | Maulana Azad Education Foundation(MAEF), MHA, Gol | 195.7 |
| On behalf of Assam down town University, Mr. Ashim Barman (Additional Registrar) | Conduction of examination | APTECH | 2.4 |
| On behalf of Assam down town University, Mr. Ashim Barman (Additional Registrar) | Conduction of examination | National Law University | 0.16 |
| On behalf of Assam down town University, Mr. Ashim Barman (Additional Registrar) | Conduction of examination | National Testing Agency | 3.67 |
| On behalf of Assam down town University, Mr. Ashim Barman (Additional Registrar) | Conduction of examination | NELCO | 1.44 |
| On behalf of Assam down town University, Mr. Ashim Barman (Additional Registrar) | Conduction of examination | NSCIT | 1.22 |
| On behalf of Assam down town University, Mr. Ashim Barman (Additional Registrar) | Conduction of examination | NXTRE Service Consultancy | 1.98 |

AdtU's Meet and Exposure Parley

The supports provided to the faculty members/technical staff for overall improvement

| Type of support provided | No. of Beneficiaries |
|---|----------------------|
| Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies | 105 |
| Number of professional development / administrative training programmes organized by the University for teaching and non-teaching/technical staff (FDP + PDP) | 5+0 |
| Number of teachers undergoing Faculty Development Programmes (FDP) including online programmes (Orientation / Induction Programmes, Refresher Course, Short Term Course etc.) | 128 |

Academic, research and innovation are in intellectual domains and teachers, scientist and administration involved request to remain updated with developments taking place. Thus organization of seminars/ workshops/ FDP etc are regular features of an University. This used to be carried out in gatherings of stake holders commonly. However, COVID-19 pandemic and subsequent lockdowns, compelled AdtU like other organization to organize these events within different Faculties of Studies in online mode. Several FDPs, workshops, and seminars (webinars) were conducted utilizing IT technology available in AdtU for online delivery of content. Despite of the challenges in the new technology, the teaching and learning processes continued at their usual pace. New events were also organized in physical mode by maintaining social distancing. The organizational details including topics, duration, speakers, participants etc of the FDPs, workshops, and seminars (webinars) conducted during the academic year 2020-21 are described briefly.

Statistical Methods in Biological Sciences

The Faculty of Science hosted a virtual Faculty Development Program titled "Statistical Methods in Biological Sciences, during June 29 to July 5, 2021." The event, was attended by 142 participants. The inaugural session was attended by the Vice Chancellor of the University who also delivered a speech. Dr. Hemanta Saikia, an eminent statistician delivered the first lecture after the inaugural session. He introduced R and various functional forms, covering topics such as multiple regression, logistic regression, ANOVA, and survival functions. The other eminent speakers who also delivered lecture were Dr. Dibyojyoti Bhattacharjee from Assam Central University, Silchar, Prof. Shahidul Islam of The University of KwaZulu-Natal in Pinetown, South Africa, Dr. Atanu Bhattacharjee of NEHU, Shillong delivered lectures on different topics through online platform. The participants were from different institution located across India.

COVID-19 Research Areas: Approaches for Humanities and Social Sciences

The Faculty Development Program was organized by the Faculty of Humanities and Social Sciences, in collaboration with IQAC, from July 12, 2021, to July 18, 2021. The inauguration session was graced by the Hon'ble Chancellor of AdtU Dr. N.N. Dutta. Altogether 50 PG students and 60 teachers and researchers from all over the World participated in the FDP through online platform. The program featured speakers including Dr. Satish Kumar, Prof. B.P. Sahu, Prof. K. Khiki, Dr. Kathiresan L., Dr. Subrata Dey, Mr. Kishore Bhamra, Dr. M.P. Kashyap, and Dr. Mythili Hazarika were some of the invited eminent speaker in the FDP where as Dr. Lanu Devi and Dr. Sunandan Baruah were in house speaker. The different topics of the FDP emphasized the integration of research in Humanities and Social Sciences with teaching, highlighting the need for new research focuses in response to the challenges posed by COVID-19.

AdtU's Meet and Exposure Parley

Transformation in Academics & Research Innovations: Emerging Trends & Challenges

Virtual FDP from 19/07/2021 to 25/07/2021 was organized by the Faculty of Pharmaceutical Science entitled “Transformation in Academics & Research Innovations: Emerging Trends & Challenges”. The program was graced Dr. N. N. Dutta, Chancellor, Prof. (Dr.) Subires Bhattacharyya Hon’ble Vice-Chancellor, University of North Bengal, West Bengal, India, was the Guest of Honour, Prof. Dr. L. K. Nath, Hon’ble Vice-Chancellor (i/c), Dibrugarh University, Assam, India, was the Chief Guest. The shared their valuable thoughts on the Academics and its Emerging Trends. The following thought were shared by the speakers as listed below for the benefit of the participants:

Virtual Faculty Development Programme (V-FDP) 2021
Transformation in Academics & Research Innovations: Emerging Trends & Challenges
 19 July to 25 July (7 days)
 Organized by: Faculty of Pharmaceutical Science, Assam down town University, Guwahati, Assam, India

| | | |
|---|--|---|
| Chief Patron Dr. N. N. Dutta Chancellor, Assam Down Town University | Patron Prof. (Dr.) N. C. Talukder Hon'ble Vice-Chancellor, Assam Down Town University | |
| Chairperson Prof. (Dr.) Biplob Kumar Dey Dean, Faculty of Pharmaceutical Science, Assam Down Town University | Joint Secretary Dr. Minmoy Basak Head, Department of Pharmaceutical Science, Assam Down Town University | Moderator & Joint Secretary Dr. Ananta Choudhury Faculty, Assam Down Town University |

Registration Fee: 100/- Per Participant
 Registration link: <https://forms.gle/hP966Qz2nDK7Du27>
 Account Holder's Name : DOWN TOWN CHARITY TRUST | Account No. : 0000001014224577
 Bank name : State Bank of India | Branch name : Guwahati
 IFSC Code : SBIN0007202 | MICR Code : 781002013

Virtual Faculty Development Programme (V-FDP) 2021
Theme : Transformation in Academics & Research Innovations: Emerging Trends & Challenges
 From 19 July to 25 July (7 days)
 Organized by : Faculty of Pharmaceutical Science, AdtU, Guwahati, Assam, India

Guests & Speakers

| | | | |
|--|---|--|--|
| (Chief Guest) Prof. (Dr.) L. K. Nath Hon'ble Vice-Chancellor (i/c), Professor, Department of Pharmaceutical Science, Former Dean, Institute of Science and Engineering, Dibrugarh University, India | (Guest of Honour & Keynote Speaker) Prof. (Dr.) Subires Bhattacharyya Hon'ble Vice-Chancellor, Department of Pharmacy, P.O: ADITYA, University of North Bengal, West Bengal, Pin - 734013, India | | |
| (Keynote Speaker) Prof. (Dr.) Kunal Roy Professor, Department of Pharmaceutical Technology, Indian Institute of Technology, Kharagpur, India | (Speaker) Prof. (Dr.) Satyanarayan Pattnaik Professor, Yalla Padmasree College of Pharmacy, West Bengal, India | (Speaker) Prof. (Dr.) Bhaskar Mazumder Department of Pharmaceutical Science, Dibrugarh University | (Speaker) Prof. (Dr.) M. J. Borahol Ex-Officio Secretary, Chief Scientist, JICA & Professor, Assam University, Silchar, Assam |

| | | |
|---|---|--|
| (Speaker) Prof. (Dr.) Suresh Kumar Professor, Department of Pharmaceutical Sciences and Drug Research, Punjab University, Patiala-147 002, Punjab, India | (Speaker) Prof. (Dr.) Versha Partha Professor, Department of Chemistry, Department of Pharmaceutical & Natural Sciences, Metropolitan, Dahanu Road - 240007, Uttaranchal | (Speaker) Prof. (Dr.) Pranab Ghosh Professor, Head of the Department, Department of Pharmaceutical Science, University of North Bengal, West Bengal |
| (Speaker) Prof. (Dr.) A. B. Kummakkara Professor, Indian Institute of Technology (IIT), Guwahati, Assam | (Speaker) Prof. (Dr.) Reecha Maitan Division of Pharmacy, Chakara, Chakara, Pasarpur, Pasarpur | (Speaker) Prof. (Dr.) Nagendra V. Chennuraj Professor, Director, Research, Faculty, Assam Down Town University, Guwahati, Assam, India |
| (Speaker) Prof. (Dr.) Ram Kumar Sahu Associate Professor, Department of Pharmaceutical Sciences, Assam University, Silchar, Assam | (Speaker) Prof. (Dr.) Swati Biswas Professor, Department of Pharmacy, BCTN Patil Institute of Pharmacy, Anand, Patidhar, India | (Speaker) Prof. (Dr.) Jagannath Kpta Professor, Department of Pharmaceutical Science, Assam Down Town University, Guwahati, Assam, India |

Registration Fee: 100/- Per Participant

AdtU's Meet and Exposure Parley

Faculty Development Programs

Preparedness and Management of COVID-19 from Conception to Old Age

The Faculty of Nursing under its Continuing Nursing Education (CNE) organized a FDP entitled “**Preparedness and Management of COVID-19 from Conception to Old Age**” from 26/07/2021 to 27/07/2021. The resource persons were Ms. Parul Datta, Rtd. Principal Nursing Officer (PNO), West Bengal Govt. Service, Vice President of Indian Association of Neonatal Nurses; Dr Lily Poddar Associate Professor, Nursing College, All India Institute of Medical Sciences, Bhopal, Dr. Sailaxmi Gandhi Professor and Head Nursing, NIMHANS, Bangalore, Karnataka, Ms. Madhuri Gawas, Assistant Nursing Superintendent, Saifee Hospital, Mumbai, Maharashtra, Dr. Bhuvanewari. G, M.Sc. (N), Ph.D, Associate Professor, Community Health Nursing, Saveetha College of Nursing, SIMATS, Thadalam, Chennai. A total of 382 individuals comprised of teaching faculty and students from different nursing institutes of Assam and other states of India participated in the FDP. The CNE aimed to create awareness and knowledge regarding the management of COVID-19 among health care personnel, reduce the gap between theory and practice, and overall to deliberate on innovation approach on the preparedness and management of COVID-19.

Webinar

Sustainability – adjunct to business continuity (A perspective for Educational Institute)

On 07/01/2020, a webinar on “**Sustainability – adjunct to business continuity (A perspective for Educational Institute)**” was organized by Faculty of Humanities and Social Science. Dr. A. Thakur, enlightened the audience that meeting the needs of the present without compromising the resources for generations – “Sustainable Development”. Mr. Rupam Baruah, Regional Head, East & Centre South Region Head (India), Bureau Veritas, explained the characteristics of sustainability in Indian context and what is at stake in ones sustainability actions? According to him, Stakeholders & Corporate Responsibility (CSR), Footprint : Carbon, Water, Energy and environment impact, Sectorial Resources Management & Traceability, Social Responsibility, Suppliers Sustainability (Environment & Social) are at stake in sustainability actions. He also shared that “A sustainable higher education institution, should addresses, involves and promotes, regional or global environment, economics, and society. More than 80 participants attended the webinar.

Risk Recognition in Health Care Setting

On September 21, 2020, the Faculty of Nursing organized a webinar titled “Risk Recognition in Health Care Setting.” The aim was to disseminate knowledge and raise awareness about risks in health care and the critical role of education in nursing. Dr. Mary Anthony, Nursing Superintendent at Down Town Hospital, and Prof. Dr. Gitumoni Konwar, Dean and Principal of the Royal School of Medical and Allied Health Sciences, Guwahati, shared their insights on the topic. The event benefited over 100 participants, including faculty members and students.

Ovarian Cyst and Fertility

On December 12, 2020, the Faculty of Nursing organized a webinar titled “Ovarian Cyst and Fertility.” Dr. Daradi Das, Medical Officer at Titabar BPHC, Jorhat, addressed the global issue of ovarian cysts and their impact on fertility. The webinar aimed to promote awareness of maintaining a healthy, disease-free lifestyle and to provide fundamental information about the condition. Over 86 participants attended the session.

Taking concept-based learning to bedside

On December 28, 2020, the Faculty of Nursing organized a webinar titled “Taking Concept-Based Learning to the Bedside.” Mrs. Pinaki Bayan, Nursing Superintendent at Apollo Hospital, Guwahati, addressed the growing complexity within the healthcare industry and the challenges new graduates face with the theory-practice gap. She proposed concept-based nursing as a method to bridge this gap and discussed its implementation at the bedside. The webinar aimed to highlight the benefits of concept-based nursing in providing effective bedside care. Approximately 90 participants attended the session.

Factorial Design and Its Application In Formulation Development

In the webinar titled “Application in Formulation Development,” Dr. Sanjib Bahadur explored various facets of factorial design and its significance in formulation development. He shared his invaluable insights and experiences on the topic. The session was attended by approximately 250 participants, including both students and faculty members.

Qualitative Research in Social Sciences

On December 29, 2020, the Faculty of Humanities and Social Sciences (FHSS) hosted a webinar on “Qualitative Research in Social Sciences.” The session featured Prof. Chandrakanta Gogoi and Dr. Ravi Ranjan Kumar as the resource persons. Prof. Gogoi’s presentation covered the theoretical frameworks of qualitative research, emphasizing application of positivism and other relevant aspects in social science research. Dr. Ravi Ranjan Kumar focused on the nature and analysis of qualitative research in social sciences, highlighting the distinctions between qualitative and quantitative research.

Quality Control and Quality Assurance in the Pharmaceutical Industry

On January 9, 2021, the Faculty of Pharmaceutical Science hosted a webinar titled “Quality Control and Quality Assurance in the Pharmaceutical Industry.” The session featured Md. Qamrul Ahsan as the resource person, who discussed quality control and assurance practices within the pharmaceutical industry. Additionally, he shared his research on the identification of COVID-19 factors in Bangladesh. Approximately 270 participants attended the webinar.

Phytochemical Research: A Systematic Practical Sequence

On December 29, 2020, the Faculty of Pharmaceutical Science organized a webinar titled “Phytochemical Research: A Systematic Practical Sequence.” Mr. Dhruvajyoti Sarkar, the resource person, discussed various aspects of phytochemical research and highlighted practical approaches which are required in phytochemical imperative investigation. He shared his experiences, provided an overview of the current role of natural products as therapeutic tools, and elaborated on the systematic approach to phytochemical analysis. The webinar was attended by 163 individuals from different parts of the country including students and faculty members of Assam down town University.

COVID- 19: Loss, Grief and Bereavement: Helping Families to Cope

On January 27, 2021, second-year Post Basic B.Sc. Nursing students hosted a webinar titled “COVID-19: Loss, Grief, and Bereavement: Helping Families to Cope,” featuring Mrs. Xavier Belsiyal C. from AIIMS, Rishikesh. The session focused on understanding the impact of COVID-19 on grief and bereavement and developing strategies to support families affected by loss of near and dear ones.

AdtU's Meet and Exposure Parley

Title of the Event : "Virtual Scientific Conclave-2021, a platform for comprehensive discussion on challenges and prospects in the field of science and technology"

The event started with an inaugural address by Hon'ble Vice-Chancellor Dr. N. C. Talukdar and Hon'ble Dean Prof. (Dr.) Biplab kr. Dey, Assam Down Town University (ADTU), Assam. Dr. N. N. Dutta, Chancellor, ADTU; Dr. B. Dutta, Dean of studies, ADTU extended their warm welcome to all the chief guest, speakers, and participants of the webinar. Our Hon'ble chief guest Dr. Sanjai Kr. Dwivedi, Director DRL, DRDO, Tezpur, Assam extended his warm welcome to the participants and Resource Persons of the Webinar. Dr. Balagopalan Unni, Adviser Research, Assam Down Town University, Dr. N. C. Talukdar and Dr. B. K. Dey thanked Dr. H. V. Batra, Former Director, DFRL, DRDO; Dr. Sanjai Dwivedi Director, DRL, DRDO; Dr. Dr. P. Chattopadhyay, Dr. Danswring Goyary, Dr. Y. D. Bhutia, Dr. P K Raul at DRL, DRDO; Dr. Mousumi kar Pillai, Professor, MEDI-CAPS University, Indore; Dr. Sonali Roy, NIPER, Guwahati; Dr. Tapan kumar Maity, Jadavpur University, Kolkata; Dr. Pranab Ghosh, North Bengal University, West Bengal for being the speakers of 3 days to guide the participants about the Virtual Scientific conclave-2021. They appreciated the efforts made by Assam Down Town University to improve the research quality and quality of Higher Education.




A joint venture of
Assam down town University Defence R&D Organisation



Dr. N. N. Dutta
Hon'ble Chancellor
Assam down town University
Guwahati, India

Chief Patron



Prof. (Dr.) N. C. Talukdar
Hon'ble Vice Chancellor
Assam down town University
Guwahati, India

Patron



Dr. Sanjai K Dwivedi
Hon'ble Director
Defence Research and Development Organisation
Tezpur, India

Chief Guest

Free Registration

All the participants will be awarded with participation certificate after successful completion of the event.

Who Should Participate:

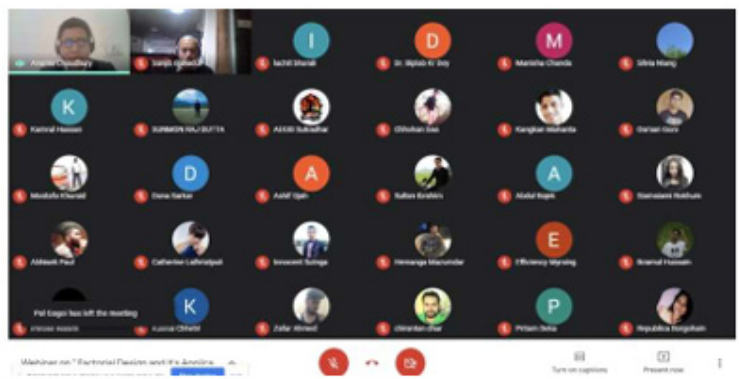
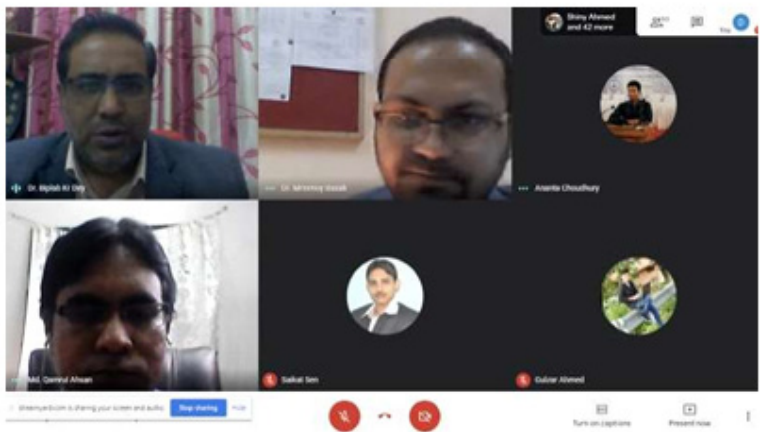
- ✓ Students (UG & PG)
- ✓ Research scholars
- ✓ Faculty members
- ✓ Scientists
- ✓ Industry personnel

Registration link: <https://forms.gle/4H5bYjDhc7Wgysor9>

AdtU's Meet and Exposure Parley

VIRTUAL WEBINAR ON “QUALITY CONTROL AND QUALITY ASSURANCE IN THE PHARMACEUTICAL INDUSTRY”

Faculty of Pharmaceutical science, Assam down town University organized Webinar on “Quality control and quality assurance in the pharmaceutical industry” on 9th January, 2021. The event was started at 2:30 am with the welcome speech by Prof. (Dr.) Biplab Kumar Dey, Dean, Faculty of Pharmaceutical Science, Assam downtown University (AdtU) and followed by Lecture Session delivered by Md. Qamrul Ahsan. During his presentation. He discussed about the various aspects of quality control and quality assurance in the pharmaceutical industry. He shared his present research work, a Research on COVID-19 by trying to identify COVID-19 factors in Bangladesh and also shared invaluable experiences on this particular field. Around 270 individuals comprising of students and faculties from different department of Assam downtown university participated in the webinar. During question answer session, many participants interacted with the speaker and cleared their doubts. At the end, participants expressed their views on the event and they found the event as highly informative. The webinar was concluded with the conclusion remake and vote of thanks by the moderator.

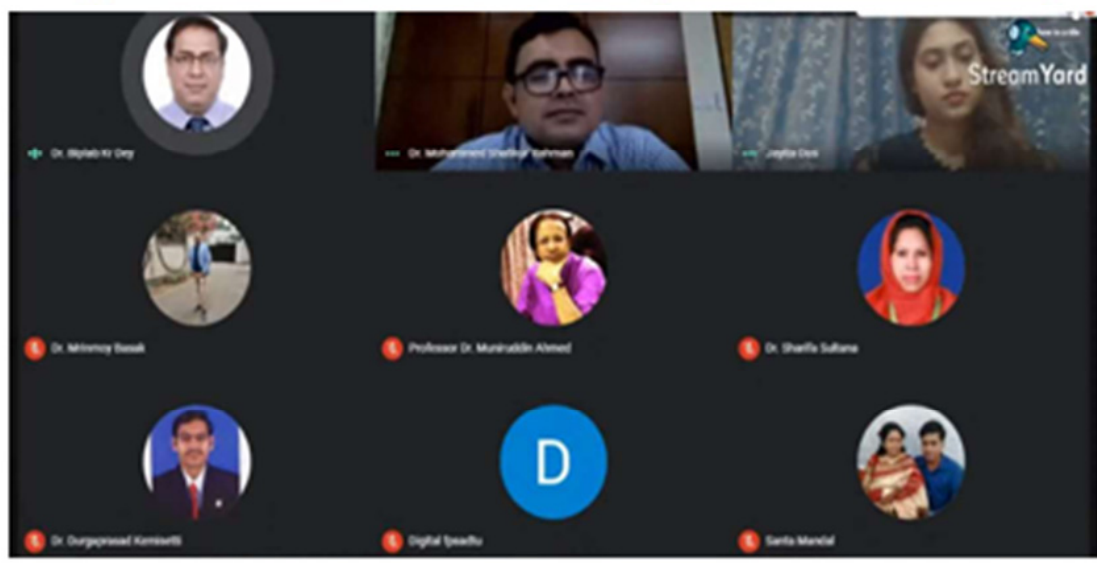
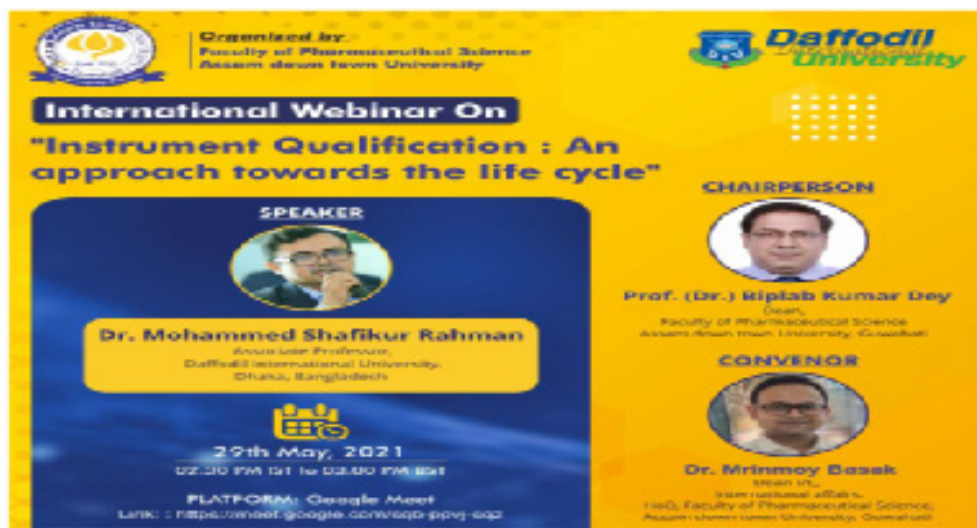


AdtU's Meet and Exposure Parley

INTERNATIONAL WEBINAR ON "INSTRUMENT QUALIFICATION: AN APPROACH TOWARDS THE LIFE CYCLE"

Office of the Dean, Faculty of Pharmaceutical Science & Office of the Dean, International Affairs, Assam down town University, India in association with Daffodil International University, Dhaka, Bangladesh have organised an International Webinar on 29/05/2021. Honourable speaker of the event, Dr. Mohammed Shafikur Rahman from Daffodil International University, Dhaka, Bangladesh had delivered his talk on the topic "Instrument Qualification: An approach towards the life cycle". Entire event was conducted through google meet and also broadcasted through You Tube live. Around 480 participants from different states of India and Bangladesh have participated in the Webinar. The chairperson of the event, Professor (Dr.) Biplab Kumar Dey, Dean, Faculty of Pharmaceutical Science, Assam down town University have mentioned that the theme of the talk is very much pertinent and will certainly help the students of both the countries in gaining an elaborate insight about pharmaceutical industrial operations knowledge which in turn would enable them to be equipped while pursuing their careers in manufacturing, R & D, QC or in QA. The convenor of the event, Dr. Mrinmoy Basak, Dean I/C, International Affairs, Assam down town University & HoD, Faculty of Pharmaceutical Science stated that as a part of promotion of Education and Research activity, Assam down town University will conduct more such collaborative events in near future.

Virtual- Webinar



AdtU's Meet and Exposure Parley

Webinar on *What are the factors that determine the edibility in edible aroids*

Speaker: Peter J. Matthews Professor,
Department of Cross-field Research & Field Sciences Laboratory,
National Museum of Ethnology, Japan.

Organized by
Faculty of Science
Assam down town University

Webinar On
What are the factors that determine edibility in edible aroids?

SPEAKER
Peter Joseph Matthews
Professor,
Department of Cross field Research &
Field Sciences Laboratory,
National Museum of Ethnology, Japan

CHAIRPERSON
Dr. Rajeev Sarmah
Dean,
Faculty of Science,
Assam down town University, Guwahati

CONVENOR
Dr. Mrinal Kumar Das
Associate Professor,
Programme Botany, Faculty of Science,
Assam down town University, Guwahati

CO-CONVENOR
Dr. Anjan Kumar Sarma
Assistant Professor,
Programme Botany, Faculty of Science,
Assam down town University, Guwahati

12th June, 2021
12:00 Noon to 01:00 PM

PLATFORM: Google meet
Link : <https://meet.google.com/hrz-oyud-neh>

The talk was focused mainly on three aroid genera (*Colocasia*, *Alocasia* and *Xanthosoma*) that appear quite similar but have very different origins, dispersal history and culinary uses. There are >3000 species of aroids (araceae) are there globally. Edible aroids includes *Colocasia*, *Alocasia* found in Asia and *Xanthosoma* found in America. Species of *Colocasia* includes *Colocasia esculenta*, *C. manni*, *C. fallex*, *C. oresbia*. *Alocasia* includes *Alocasiamacrorrhiza*, *A. portei*, *A. odora*. However, *Xanthosoma* includes *Xanthosoma maffafa* and *X. Saggitifolium* which are originated in central and south America. Factors determine the edibility are

- Plant Biology: storage organ and biochemical defense (acridity, lectin, tennin)
- Environment: Abiotic and biotic stress (poor soil, drought, herbivores)
- Human knowledge: Innovation and tradition (Cooking methods, food culture)
- Human biology: evolution before

e-FDPon “Research Methodology-Resilience for good Research

A seven days e-FDP on “Research Methodology-Resilience for good Research” was organized by faculty of science during 22-28 July, 2020. During the event seven nos. of resource person delivered their lecture in different areas viz. Dr. Ashis K. Mukherjee (Tezpur University) delivered his lecture on Research and Project Management: Keys to Success, Dr. Bijoy Neog (Dibrugarh University) on Research problem in Biological Sciences, Dr. Jiten Hazarika (Dibrugarh University) on Methods and tools for data collection, Dr. ManashPratim Barman (Dibrugarh University) on Analysis of Survival Data using SPSS, Dr. Purabi Deka Bose (Cotton University) onSteps towards Research: With the prospective of Biological Science, Dr. N.C. Talukdar on What it takes in preparation of successful research proposal for wining financial and for publication of research in quality journal and Dr. B.G Unni on the topic Fundamentals of research methodology. Altogether 94 participants from different parts of the country were participated in the programme.

Webinar

|  Seven Days Electronic Faculty Development Programme (e-FDP) On “Research Methodology-Resilience for good Research” Organized by Faculty of Science, Assam down town University From: 22-28 July-2020  | | |
|--|---|--|
| Chief Patron  Dr. Narendra Nath Dutta Honorable Chancellor Assam down town University | SPEAKERS | |
| Patron  Prof. (Dr.) Amarjyoti Choudhury Honorable Vice-Chancellor Assam down town University |  Dr. B.G Unni Former Chief Scientist, CSIR-NEIST, Jorhat Research advisor, AdTU Director-Academics & Research, GEMS arts & Science College (Affiliated to University of Calicut) | Topic Fundamentals of Research Methodology 22nd July, 2020 11:00 AM to 12:00 NOON |
| Chairperson  Dr. Rajeev Sarma Dean, Faculty of Science, Assam down town University |  Dr. Bijoy Neog Professor, Department of Life Sciences, Dibrugarh University, Dibrugarh, Assam | Topic Biodiversity information and conservation- Biological Research 23rd July, 2020 11:00 AM to 12:00 NOON |
| Convenor  Dr. Manash Pratim Barman Associate Dean, Faculty of Science, Assam down town University |  Dr. Purabi Deka Bose Assistant Professor, Department of MBST, Cotton University, Guwahati, Assam | Topic Steps towards Research: With the Prospective of Biological Science 24th July, 2020 11:00 AM to 12:00 NOON |
| Co-Convenor  Dr. Nayan Talukdar Asst. Professor, Faculty of Science, Assam down town University |  Dr. Jiten Hazarika Professor & HoD, Department of Statistics Dibrugarh University, Dibrugarh, Assam | Topic Methods and tools for data Collection 25th July, 2020 11:00 AM to 12:00 NOON |
|  Dr. Sojan Sinha Asst. Professor, Faculty of Science, Assam down town University |  Dr. Manash Pratim Barman Associate Professor, Department of Statistics, Dibrugarh University, Dibrugarh, Assam | Topic Methods and tools for data analysis. 26th July, 2020 11:00 AM to 12:00 NOON |
|  Dr. Anjan Kumar Sarma Asst. Professor, Faculty of Science, Assam down town University |  Dr. N. C. Talukdar Former Director, Institute of Advanced Studies in Science and Technology (IASST), Chief Research Advisor, AdTU Guwahati, Assam | Topic What it takes in preparation of a successful research proposal for winning financial support and for publication of research in quality journal 27th July, 2020 11:00 AM to 12:00 NOON |
| |  Dr. Ashis K. Mukherjee Former Dean, Research and Development, Tezpur University & Professor, Department of Molecular Biology and Biotechnology, Tezpur University, Tezpur, Assam. | Topic Research and Project Management: Keys to Success 28th July, 2020 11:00 AM to 12:00 NOON |

Dry Needling with Pain Management

On May 2, 2021, the Faculty of Paramedical Science (Physiotherapy) hosted a webinar on “Dry Needling with Pain Management,” featuring Dr. Subhanjan Das (PT), a specialist in dry needling. The event was attended by 100 participants. The speaker covered the significance and therapeutic benefits of dry needling and also discussed its application in pain management, distinguishing it from trigger point therapy and acupuncture. Participants who scored 80% or higher on a quiz at the end of the webinar were awarded an E-certificate.

Functional Manipulations for Movement Dysfunction

On May 9, 2021, the Faculty of Paramedical Science organized a webinar titled “Functional Manipulation for Movement Dysfunction,” which attracted 90 participants from around the world. Gonzalo Velasquez, Clinical Director at Movement Solutions in Chile, South America, was the resource person. He shared his expertise on movement dysfunction, including methods for treatment and prevention, and provided a live demonstration of functional manipulation techniques.

Nutrition in COVID-19

On May 27, 2021, the Faculty of Science hosted a webinar on “Nutrition in COVID-19,” which was attended by 95 participants, including researchers, faculty members, and students. Mrs. Shubangini A. Joshi, former IC Principal and Head of the Department of Food Technology at P.V. Polytechnic, SNTD University, Mumbai, led the session.

She covered COVID-19 signs and symptoms, personal hygiene practices during the pandemic, and highlighted key nutrients—such as protein, vitamins (A, C, D), and minerals (iron, zinc, selenium)—that are crucial for building immunity. Mrs. Joshi also discussed her patented Hypromil-High Protein Flour and its health benefits.

Impatiens L. (Family: *Balsaminaceae*) of Eastern Himalaya

On May 25, 2021, the Faculty of Science hosted a webinar on “Impatiens L. (Family: *Balsaminaceae*) of the Eastern Himalaya,” attended by 69 participants. Dr. Rajib Gogoi, Scientist-E and Regional Head at the Botanical Survey of India (MoEF & CC), Sikkim Himalaya Regional Centre, Gangtok, Sikkim, made a detailed presentation on the various species of Impatiens within the Balsaminaceae family found in the Eastern Himalayan region. He noted that this region, which includes two biodiversity hotspots, harbors a significant number of plant species categorized as RET (Rare, Endangered, and Threatened) by the IUCN. The Balsaminaceae family comprises over 200 species worldwide, with more than 80 recorded from North Eastern India. Many of these species thrive at high altitudes, making ex-situ conservation challenging due to their specialized habitat conditions. Dr. Gogoi also discussed the economic and ethnobotanical uses of several commonly used species in this family, and highlighted key points including the impact of climate change on Impatiens diversity, their economic significance, and ethnobotanical applications.

Career Prospects in Infrastructure Domain (Cloud, SDN, Security)

On 29/05/2021, Faculty of Engineering and Technology organized a webinar on “Career Prospects in Infrastructure Domain (Cloud, SDN, Security)” to vindicate knowledge on cloud technology. Over the last decade, cloud computing, software-defined networking (SDN), and network functions virtualization (NFV) technologies have been developed to address the inefficiency of IT infrastructures, the complexity of network manual configuration and management, the inability of the Internet to provision services on demand, and the rigidity of telecom service providers. However, clouds, SDN, and NFV bring with them not only their common security issues but also their domain-specific security issues. Furthermore, clouds, SDN, and NFV overlap in both architectures and shared resources. Software-defined infrastructure (SDI) is an approach that overcomes those problems and provides an environment for provisioning rapid and on-demand services. The CSE invited Mr. Bhaskar Baruah, Founder & CEO @ EduX (Educational wing of iBloomVR Private Limited) to the participants the recent developments in this domain. Eighty nine participants including students and teachers took part in the webinar.

Anti-viral Bioresources of North-East India–Their Role in immunomodulation

On 09/06/2021 a webinar on “Anti-viral Bioresources of North-East India–Their Role in immunomodulation “ was organized by Faculty of Science. Resource person Dr. Lokesh Deb, Scientist-D, IBSD Sikkim Centre (DBT-IBSD), Govt. of India, Gangtok Sikkim shared knowledge on bioresources are non fossil biogenic resources which can be used by humans for multiple purposes. produce food, substantial products, and/or energy carriers. Example: forest, edible plants, medicinal plants etc. Our two third medicines are either from plant derived components or their derivatives. More than 100 participants attended the webinar from different institutions of the country.

What are the factors that determine the edibility of edible aroids?

On 12/06/2021, Prof. Peter J. Matthews, Department of Cross-field Research & Field Sciences Laboratory, National Museum of Ethnology, Japan, was invited by faculty of Science to share his experience. He explained mainly on three aroid genera (Colocasia, Alocasia and Xanthosoma) that appear quite similar but have very different origins, dispersal history and culinary uses. There are >3000 species of aroids (araceae) globally. Edible aroids includes Colocasia, Alocasia found in Asia and Xanthosoma found in America. Species of Colocasia includes Colocasiaesculenta, C. manni, C. fallex, and C. oresbia. Alocasia includes Alocasiamacrorrhiza, A. portei, A. odora. However, Xanthosoma includes Xanthosomamaffafa and X. Saggitifolium which originated in central and south America. Factors which determine the edibility can be categorized under specific heads. These are Plant Biology; storage organ and biochemical defense (acridity, lectin, tennin); Environment: abiotic and biotic stress (poor soil, drought, herbivores); Human knowledge: Innovation and tradition (Cooking methods, food culture); Human biology: evolution before and after agriculture began (food need, tolerance, habituation). The webinar was attended by 100 of faculty, researchers, students from different institutions of the country.

Vestibular developmental dysfunction in children with cerebral palsy and its management

On 19/06/2021, a webinar was organized by the Program of Physiotherapy, Faculty of Paramedical Sciences, Assam down town University on 19th June, 2021. Amit Barua (PT), an expert in dealing with children with Cerebral Palsy and Autism extended his experience and emphasized on the importance of vestibular training and about the therapeutic benefits of this innovative treatment in children with Cerebral Palsy. The webinar was attended by 100 participants.

Children's Psychological Consideration for Covid-19 Third Wave

On 24/06/2021, a National webinar on "Children's Psychological Consideration for Covid-19 Third Wave" was organized by the Faculty of Humanities and Social Sciences (Psychology), The Resource Person Mr. Akashdeep Ghoshal, a registered Clinical Psychologist focused on the role of social media in exacerbating psychological issues during the pandemic. He also stressed upon the behavioural and psychosocial effects of COVID 19 pandemic on children. Further focus was also laid down upon the role of parents and elders in helping their children to cope up with feelings of anxiety, depression. The speaker also stressed upon the detrimental effects of prolonged exposure to screen on Children mental health. In conclusion he suggested strategies as to how children's mental health can be protected as a result of apprehensions prevailing around the onset of third wave of COVID-19. Ninety participants attended the Webinar.

Amblyopia and its management

On 08/07/2021, a webinar was organized by Optometry, Faculty of paramedical science, on "Amblyopia and its management". 'Mr Zeeshan Akhtar', Asst. Professor, School of health and science, Sushant University, Gurgaon was invited as the resource person. There were a total of 93 participants from across different institutions of India who took part in the webinar. The resource person presented and engaged in interaction on Amblyopia and its causes, patho physiology, clinical features, diagnosis, risk factors along with methods of management.

Covid -19 and recent obstetrics care

On 16/07/2021, Faculty of Nursing invited Dr. Sudha Raddi, Principal, Institute of Nursing sciences, Belagavi, Karnataka, to deliver a talk for the benefit of the scientific community on the topic "COVID 19 and recent obstetrical care". A total of 154 participants including students and teachers from various states of India participated in the event. The Corona virus epidemic is associated with increased risk of prenatal anxiety and depression, as well as domestic violence. It is critically important that support for women and families has to be strengthened as far as possible. with regards to vertical transmission (transmission from mother to baby antenatally or intrapartum). Emerging evidence now suggests that vertical transmission is probable, although the proportion of pregnancies affected and the significance of infection to the neonate is yet to be determined.

•Webinar on *Impatiens L. (Balsaminaceae)* of Eastern Himalaya

Speaker: Dr. Rajib Gogoi
Scientist-E & Regional Head
Botanical Survey of India (MoEF & CC),
Sikkim Himalaya Regional Centre, Gangtok, Sikkim

Organized by
Faculty of Science
Assam down town University

Webinar On
Impatiens L. (Balsaminaceae)
of Eastern Himalaya

SPEAKER

Dr. Rajib Gogoi
Scientist-E & Regional Head
Botanical Survey of India (MoEF & CC),
Sikkim Himalaya Regional Centre,
Gangtok, Sikkim

CHAIRPERSON

Dr. Rajeev Sarmah
Dean, Faculty of Science,
Assam down town University,
Guwahati

CONVENOR

Dr. Anjan Kumar Sarma
Assistant Professor
Programme Botany, Faculty of Science,
Assam down town University,
Guwahati

25th May, 2021
12:00 NOON to 1:00 PM
PLATFORM: Google meet
Link: <https://meet.google.com/syu-qzbv-qyd>

The speaker emphasized on different species of *Impatiens* under the *Balsaminaceae* family of Eastern Himalayan region. The region comprises of two biodiversity hot spots and has immense number of plant species belonging to RET categories of IUCN. *Balsaminaceae* have almost >200 species worldwide and almost >80 have been recorded from North eastern region of India. Most of the species found wild in NE Region have high altitude in their distribution. Due to their own favourable conditions of habit, it is impossible for the taxonomists to conserve them in ex-situ conditions. Dr. Gogoi has also elaborated the economic as well as ethnobotanical uses of some frequently used species of the family.

Salient Points Discussed:

- Impact of climate change on the diversity of *Impatiens*.
- Economic importance and ethno botanical uses of *Impatiens*
- Cause and effect of pollination

•Coping through Pandemic: from Agility to Resilience

•On 24/07/2021, Faculty of Nursing organized a webinar on Coping through Pandemic: from Agility to Resilience. The resource person Dr. Deepa Chugh, Head of Nursing Service & Principal of Nursing National Heart Institute, New Delhi, India narrated the Corona virus pandemic and highlighted the risk of anxiety and depression associated with it. It was the first wave which shook the humanity and the second wave helped to identify the strength and weakness as individual and community displayed facing the crisis. The resilience built was an opportunity for the future to be ready to face any eventual third wave. It is critically important to support and maintain a healthy mind and body, to practice mental hygiene, and to have a positive work life balance, improve immunity hygiene, sleep hygiene and practice relaxation techniques which help derive a better immune and mental health during the pandemic. One hundred and three participants including teaching faculty members and students took part.

•COVID -19: Impact and Role of Vaccine

•On 31/07/2021, the Faculty of Nursing invited Dr. Swapnav Borthakur, Senior Consultant, Department of Medicine cum Deputy Medical Superintendent, Down Town Hospital, Guwahati, Assam, to deliver a talk on this topic. Ninety five students and faculty members participated. The resource person explained different aspects of COVID-19 and its impact on the society and streamed on safety measures that every individual should adopt. He also said about how taboos may deter people from faking vaccine and motivated participants how vaccine is the best method of protection against COVID-19.

•Pursuing Music As A Career

•On 31/07/2021, an event was organized to promote Performing Arts and also to throw light on the scope of pursuing music as a form of livelihood. The eminent speakers Sri. Joydeep Mukherjee mentioned that music is a wide field. So, one must try to identify their own niche in order to mark ones hold in the field. Dr. Rabindra Bharali emphasized on the theoretical and practical knowledge that go hand in hand and is essential to develop the knowledge on music. Dr. Sangita Kakati spoke on the scopes of music. Profession in music is not merely being a singer, composer or instrumentalist but a way beyond. One can choose to be a recording technician, music producer, music critics, publicist, music therapist, music lawyer and so on. Mr. Tarun Kalita explained the concerns faced by the musicians and how they can upgrade themselves. The webinar was attended by 80 participants.

To bring values to academics and research in an University, collaboration with other academic and R&D organization in different domains is important. The University has established collaborations newly during 2020-21 with prominent academic and research institutions both within and outside the state. In case of MoU's with institutions which were signed earlier but expired now were renewed during this year. On April 21, 2021, the MoU with Dr. Bhubaneswar Borooah Cancer Institute (BBCI), a Grant-in-Aid Institute of the Department of Atomic Energy, Government of India, was renewed for another five years. This agreement focuses on sharing laboratory facilities and providing cancer data and samples for research conducted at AdtU.

- MoUs with CSIR-North East Institute of Science and Technology (NEIST), Jorhat, Guwahati Biotech Park, and Southern University were renewed on November 5, 2020, October 12, 2020, and March 18, 2021, respectively. These agreements facilitated the sharing of sophisticated instruments and collaborative research efforts.

- On May 2, 2021, an MoU was signed with the North Eastern Tea Association (NETA), Golaghat, to conduct joint research and share sophisticated experimental instruments of AdtU in carrying out tea quality specific analysis of products.

- The University also formed industry-academia partnerships by signing MoUs with Ram Electronics and Equipment for the development of E-rickshaws, North Eastern Regional Agricultural Marketing Corporation Ltd., and Innotech Agropostikam Pvt. Ltd. on December 11, 2020. These agreements cover consultancy services and the development of value-added products for a period of 3-5 years.

- On July 30, 2021, an MoU was signed with Central India Institute of Medical Science to enhance microbiological, pharmaceutical, and biotechnological research through facility sharing and idea exchange.

- A MOU was signed with the North East Centre for Technology Application and Reach, DST, Govt. of India, on 19th Nov, 2020 for a year for promoting agro-based innovations.

- For academic and research collaboration, including teacher and student exchange programs, an MoU was signed with Ishakha International University, Bangladesh, on March 18, 2021.

The University has actively engaged itself with society since its establishment to understand the needs of rural community in different villages and provide solutions of problems faced by villagers and also support for their development. Since 2011, the University has been involved in various community activities. However, during the 2020-21 academic year, the COVID-19 pandemic significantly restricted students and teachers participation. Despite these challenges, the University focused on raising awareness about precautionary health measures and providing aid to those affected by the lockdown, including distribution of food to the underprivileged.

- During the lockdown, the University was unable to proceed with many of its planned outreach activities in its adopted villages. Nevertheless, the Nursing faculty, NCC, and NSS members played a crucial role in saving lives and providing support to needy villages of AdtU's adopted village. During the brief respite from the lockdown, the University continued its outreach efforts:

- On December 18, 2020, the Unnat Bharat Abhiyan cell organized a cloth distribution drive in Rajabari village, benefiting 40 impoverished residents. Faculty members led the initiative where many students also participated actively. The villagers gratefully accepted the assistance.

- On March 4, 2021, on the event of the International Women's Day, the University organized an awareness program on Literacy and Menstrual Hygiene at Garo-Basti Village, Panikhaiti Gaon Panchayat, Guwahati. The program aimed to highlight the importance of education in empowering women and addressing gender inequality. Faculty and students from social work and nursing conducted the session, educating participants about the benefits of education and menstrual hygiene. Sanitary pads were also distributed to the women of the villages.

- On April 10, 2021, the psychology program under the Faculty of Humanities and Social Sciences hosted an awareness event at Benganabari Village. The program included a career counseling session for students of the adopted villages.

Outreach Activities

| Name of the activity | Organizing unit/ agency/ collaborating agency | Number of students participated in such activities | Teachers involved in guidance |
|---|---|--|-------------------------------|
| Awareness Building on Covid 19 Pandemic for the Youth of Bonda Village | Extension and Outreach Club | 96 | 3 |
| Sanitizer Distribution Drive among the People of Panikhaiti village | Extension and Outreach Club | 40 | 2 |
| Awareness Program on Literacy and Menstrual Hygiene for the Women of Garo Basti Village | Extension and Outreach Club | 50 | 10 |
| Health Camp for the Youth of Chandrapur Village | Extension and Outreach Club | 76 | 20 |
| Awareness on Tuberculosis among the People of Rajabari Village | Extension and Outreach Club | 80 | 8 |
| Awareness Building on Disaster Management among the People of Rajabari Village | Extension and Outreach Club | 70 | 12 |
| Health Awareness Camp for the People of Tintukura Village | Extension and Outreach Club | 67 | 6 |
| Awareness Camp on Significance of Blood Donation among the People of Garo Basti Village | Extension and Outreach Club | 25 | 3 |
| Health Camp for the People of Tintukura Village | Extension and Outreach Club | 67 | 8 |
| Awareness Building on AIDS among the Youth of Chandrapur Village | Extension and Outreach Club | 70 | 40 |
| Awareness Building on COVID-19 Pandemic among the People of Chandrapur Village | Extension and Outreach Club | 40 | 37 |
| Awareness Building on COVID-19 Pandemic among the People of Garo Basti Village | Extension and Outreach Club | 67 | 10 |
| Awareness Building on COVID-19 Pandemic among the Youth of Bonda Village | Extension and Outreach Club | 78 | 12 |
| Awareness on COVID-19 Pandemic among the Youth of Panikhaiti Village | Extension and Outreach Club | 25 | 5 |
| Workshop on Renewable Energy for the people of Chandrapur Village | Extension and Outreach Club | 23 | 3 |
| Design Challenge Hackathon for the Youth of Chandrapur Village | Extension and Outreach Club | 21 | 3 |
| Workshop on Engineering Career and future roadmap for the Youth of Panikhaiti Village | Extension and Outreach Club | 22 | 3 |
| Workshop on Coding Challenge for the Youth of Chandrapur Village | Extension and Outreach Club | 30 | 3 |
| Awareness on Cyber Security among the Youth of Bonda Village | Extension and Outreach Club | 21 | 6 |
| Awareness on Sustainable Soil Management for the People of Rajabari Village | Extension and Outreach Club | 22 | 5 |
| Workshop on Agripreneurship Development for the Youth of Bonda Village | Extension and Outreach Club | 20 | 6 |

Outreach Activities Cont...

| Name of the activity | Organizing unit/ agency/ collaborating agency | Number of students participated in such activities | Teachers involved in guidance |
|---|---|--|-------------------------------|
| Awareness Building on Mushroom Cultivation for the Farmers in Panikhaiti Village | Extension and Outreach Club | 23 | 5 |
| Awareness Building on benefits of Vermicompost among the Youth of Tintukura Village | Extension and Outreach Club | 19 | 6 |
| Awareness on Mushroom Cultivation among the Farmers of Bonda Village | Extension and Outreach Club | 16 | 4 |
| Plantation Drive at Panikhaiti Village | Extension and Outreach Club | 18 | 5 |
| Food Distribution Camp for the Villagers of Tamulbari | Extension and Outreach Club | 78 | 4 |
| Relief Material Distribution for the Covid Victims of Bengenabari village | Extension and Outreach Club | 80 | 4 |
| Relief Material Distribution for the Covid Victims of Panikhaiti village | Extension and Outreach Club | 90 | 3 |
| Awareness programme on Menstrual Health at Chandrapur | 60 Assam Girls Bn, NCC, AdtU | 15 | 1 |
| Awareness on healthy diet at Tintukura | 60 Assam Girls Bn, NCC, AdtU | 10 | 2 |
| Awareness on disaster management at Rajabari | 60 Assam Girls Bn, NCC, AdtU | 12 | 1 |
| Demonstration of Self defence techniques for people nearby Panikhaiti | 60 Assam Girls Bn, NCC, AdtU | 10 | 6 |
| Cloth donation Campaign for flood victims at Rajabari | 60 Assam Girls Bn, NCC, AdtU | 25 | 5 |
| Skill Development Workshops at Rajabari | 60 Assam Girls Bn, NCC, AdtU | 20 | 6 |
| Plantation Drive at neighbouring areas of the cadets | 60 Assam Girls Bn, NCC, AdtU | 15 | 2 |
| Sapling Plantation at Panikhaiti | 60 Assam Girls Bn, NCC, AdtU | 20 | 2 |
| Self Defense Demonstration for children nearby Panikhaiti | 60 Assam Girls Bn, NCC, AdtU | 22 | 2 |
| River Bank Cleaning Project at Rajabari | 60 Assam Girls Bn, NCC, AdtU | 19 | 2 |
| Swacchta Awareness Programme at Sankar Madhav Path, Panikhaiti | 60 Assam Girls Bn, NCC, AdtU | 20 | 2 |
| Digital Literacy Program for the youths nearby Bonda | 60 Assam Girls Bn, NCC, AdtU | 15 | 2 |
| Awareness on HIV at Tintukura village | 60 Assam Girls Bn, NCC, AdtU | 13 | 2 |
| Distribution of sweets and snacks at Rajabari | 60 Assam Girls Bn, NCC, AdtU | 17 | 2 |

Outreach Activities Cont...

Student's Societal Engagement

| Name of the activity | Organising unit/ agency/ collaborating agency | Number of students participated in such activities | Teachers involved in guidance |
|--|---|--|-------------------------------------|
| Self defense Workshop for the female near Panikhaiti | 60 Assam Girls Bn, NCC, AdtU | 19 | 2 |
| Awareness program on COVID 19 infection and prevention at Chandrapur | 60 Assam Girls Bn, NCC, AdtU | 22 | 2 |
| Plantation Drive at panikhaiti | 60 Assam Girls Bn, NCC, AdtU | 18 | 2 |
| Awareness Programme on Covid-19 Second Wave at Panikhaiti Bazar | NSS Unit, Assam down town University | 5 | 2 |
| Awareness Programme on Covid-19 Second Wave at Gandhi Nagar | NSS Unit, Assam down town University | 8 | 2 |
| Food Donation Camp at Tintukura Village | NSS Unit, Assam down town University | 3 | 2 |
| Medical camp at Bengenabari Village | NSS Unit, Assam down town University | 8 | 3 |
| Awareness Programme on Water Conservation at Kalangpar Bazar | NSS Unit, Assam down town University | 10 | 4 |
| Awareness on Mental Health at at Garobasti Village | NSS Unit, Assam down town University | 10 | 2 |
| Plantation Drive at Bengenabari Village | NSS Unit, Assam down town University | 4 | 2 |
| Awareness on production & use of vermicompost at Rajabari Village | NSS Unit, Assam down town University | 20 | 2 |
| Awareness on Mask Usage at Sankar Madhav Market Area | NSS Unit, Assam down town University | 10 | 2 |
| Awareness of Covid 19- Vaccination at Bengabari Village | NSS Unit, Assam down town University | 10 | 2 |
| Awareness on production & use of vermicompost Tintukura Village | NSS Unit, Assam down town University | 15 | 2 |
| Mask distribution in Panikhaiti during Covid19 | NSS Unit, Assam down town University | 10 | 2 |
| Awareness on prevention of cardiac arrest at Sankar Madhav Path | NSS Unit, Assam down town University | 8 | 2 |
| Awareness programme on Mass Immunization at Rajabari Village | NSS Unit, Assam down town University | 6 | 2 |
| Awareness on AIDS at Bonda | NSS Unit, Assam down town University | 20 | 2 |
| Eye testing camp at Gandhi Nagar | NSS Unit, Assam down town University | 15 | 2 |
| Awareness on importance of mental health at Panikhaiti Yuva Sangha | NSS Unit, Assam down town University | 10 | 2 |

Recognitions

Recognitions Received from other than Govt. Agency

| Title of the innovation | Name of the Awardee | Name of the Awarding Agency with contact details | Year of Award | Category- Institution/teacher/research scholar/student |
|---|----------------------------|---|---------------|--|
| World Book of Records | Assam down town University | World Book of Records, London | 2020-2021 | Institution |
| A3 Band-Institute of Excellence | Assam down town University | MHW Ranking, 2021 | 2020-2021 | Institution |
| HFACT Membership (International membership and quality assurance certification) | Assam down town University | Higher Learning Accreditation Consultant & Training | 2020-2021 | Institution |
| EPSI membership certificate | Assam down town University | Education Promotion Society for India | 2020-2021 | Institution |
| Young Researcher Award | Dr. Manash Pratim Sarma | InSc Bangalore, info@insc.in | 2020-2021 | Teacher |
| Women Researcher Award | Ms. Nirmali Gogoi | International Scientist Awards on Engineering, Science and Medicine | 2020-2021 | Teacher |
| Young Scientist Award | Dr. Gunamoni Das | International Scientist Awards on Engineering, Science and Medicine | 2020-2021 | Teacher |

Recognition of Faculty from the Govt. Agencies

| Name of the Department with recognition | Name of the Scheme | Name of the funding agency | Year(s) of Award | Funds provided | Duration of award |
|---|---|--|------------------|----------------|-------------------|
| Faculty of Science | Exploring Nutraceutical Potential of Shiitake (<i>Lentinula edodes</i>) and Maitake (<i>Grifolafrondosa</i>) Mushrooms and promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India Concept | Department of Biotechnology (DBT), Govt. of India | 2020-2021 | 14.352 | 3 years |
| Faculty of Engineering & Technology | Development of a nanotechnology based system for estimating and monitoring pesticide level in tea leaves | Assam Science Technology and Environment Council (ASTEC), Govt. of Assam | 2020-2021 | 5.57 | 2 years |

Leadership & Governance



Prof. Jagdish Mukhi , Honorable Governor, of Assam and Visitor to AdtU



Hon'ble members of Governing Body, AdtU. First Row: From left – Chairman - Dr. N. N. Membrs -Prof. Amarjyoti Choudhury (From 1st April 2020 to Aug 31, 2020), Prof. N. C. Talukdar, (Sept. 1 2020 onward), Middle Row: From left Memebrs - Ar. Biswa Dutta; Ms. Mayurakshi Dutta; Dr. B. K. Gogoi; Bottom row- From left Memebrs- Dr. Nandita Chowdhuri; Dr. Debashis Mitra; and Ms. Gariasi Dutta.

Governing Body and Finance Committee

•Members of the Governing Body of Assam down town University

| Sl. No. | Name of the members | Designation |
|---------|--|----------------------------|
| 1 | Dr. N. N. Dutta, Chancellor | Chairperson |
| 2 | Prof. (Dr.) Amarjyoti Choudhury, Vice Chancellor, AdtU | Member (upto Aug 31, 2020) |
| 3 | Prof. N. C. Talukdar, Vice Chancellor | Member (from Sept 1, 2020) |
| 4 | Ar. Biswa Dutta | Member |
| 5 | Dr. B. K. Gogoi | Member |
| 6 | Dr. Debashish Mitra | Member |
| 7 | Dr. Nandita Choudhury | Member |
| 8 | Ms. Mayurakshi Dutta | Member |
| 9 | Ms. Gariasi Dutta | Member |

•Current Members of the Finance Committee of Assam down town University

| Sl. No. | Name of the members | Designation |
|---------|--|----------------------------|
| 1 | Dr. N. N. Dutta, Chancellor | Chairperson |
| 2 | Prof. Amarjyoti Choudhury, Vice Chancellor | Member (upto Aug 31, 2020) |
| 3 | Prof. N. C. Talukdar, Vice Chancellor | Member (from Sept 1, 2020) |
| 4 | Mr. Joutishman Dutta, Managing Trustee | Member |
| 5 | Mr. Ashim Barman, Addl. Registrar (Admin) | Member |
| 6 | Mr. Debashis Mitra, Financial Consultant | Member (Special Invitee) |
| 7 | Mr. Debojit Bhattachatya, Dy. Admin. Officer | Member |
| 8 | Mr. Jaydeep Kakati, Finance and Accounts Officer | Member Secretary |

The Board of Management

| Sl. No. | Name and Designation | Position |
|---------|--|---|
| 1. | Prof. Amarjyoti Choudhury, Former Vice Chancellor, AdtU | Chairperson (upto Aug 31, 2020) |
| 3. | Prof. N.C.Talukdar, Vice Chancellor | Chairperson (from Sept 1, 2020) |
| 4. | Ms.Mayurakshi Dutta, Trustee | GBRepresentative |
| 5. | Ms.Gariasi Dutta, Resident Trustee | GBRepresentative |
| 6. | Prof. Bandana Dutta, Dean of Studies | Not thememberofthe Governing Body,nominatedbytheTrust |
| 7. | Mr. Joutishman Dutta, Managing Trustee | Notthememberofthe Governing Body,nominatedbytheTrust |
| 8. | Dr. Sunandan Baruah, Dean, Research and Innovation | Teacher,nominatedbytheTrust |
| 9. | Prof.Seema Sharma, Dean, Faculty of Commerce and Management | Teacher,nominatedbytheTrust |
| 10. | Prof. Rajeev Sarmah, Professor, Faculty of Science | Teacher,nominatedbytheTrust |
| 11. | Dr.Biplab Kumar Dey, Dean Faculty of Pharmaceutical Science | Teacher,nominatedbytheVice Chancellor |
| 12. | Dr.Abhijit Dutta, Dean, Faculty of Paramedical Sciences | Teacher,nominatedbytheVice Chancellor |
| 13. | Mr. Nitul Jyoti Das, Dy. Registrar (Academic) | Member |
| 14. | Prof. Dharmeswar Das, Chairman Research | Special Invitee |
| 15. | Dr. Joydeep Goswami, Controller of Examination | Special Invitee |
| 16. | Dr. Pratap Chandra Sarma, Chairperson, Faculty of Science and Paramedical Sciences | Special Invitee |
| 17. | Dr. Ruhit Jyoti Konwar, Dy.Registrar (Academic) | Special Invitee |
| 18. | Dr.Yahya Mazumder, Dy.Registrar (Administration) | Special Invitee |
| 19. | Dr. L.N. Kakati, Dean, Faculty of Science | Special Invitee |
| 20. | Prof.Manashi Sengupta, Dean, Faculty of Nursing | Special Invitee |
| 21. | Dr.Prateeti Barman, Dean I/C, Faculty of Humanities and Social Sciences | Special Invitee |
| 22. | Dr. Mala Dutta, Associate Dean, Faculty of Information Technology | Special Invitee |
| 23. | Mr. Purba Prasad Borah, Deputy Director, Quality & Process | Special Invitee |
| 24. | Dr. Debojit Bhattacharya, Dy. Controller of Examination | Special Invitee |
| 25. | Mr. Bhabajyoti Saikia, OSD to V.C. | Special Invitee |
| 26. | Mr. Ashim Barman, Additional Registrar (Administration) | Member Secretary |

The Academic Council

| Sl. No. | Name and Designation | Position |
|---------|--|---|
| 1. | Prof. Amarjyoti Choudhury, Former Vice Chancellor, AdtU | Chairperson (upto Aug 31, 2020) |
| 2. | Prof.(Dr.) N.C.Talukdar, Vice Chancellor | Chairperson (from Sept 1, 2020) |
| 3. | Prof.. PranveerSingh,ProViceChancellor | Member |
| 4. | Prof. Bandana Dutta, Dean of Studies | Chairperson of Faculties of Studies |
| 5. | Ms. Gariasi Dutta, Resident Trustee | BoM Member nominated by Chancellor |
| 6. | Mr.JoutishmanDutta,ManagingTrustee | BoM Member nominated by Chancellor |
| 7. | Prof.A.K.Goswami | Eminent Academician Chancellor's nominee |
| 8. | Dr. Biren Das, Registrar, Tezpur University | Head of a recognized institution, VC 's nominee |
| 9. | Dr. R. Sarmah, Prof. Faculty of Science | Teacher Representative |
| 10. | Dr. Saikat Sen, Prof., Faculty of Pharmaceutical Science | Teacher Representative |
| 11. | Dr. Pratap Chandra Sarma, Chairperson Faculty Of Paramedical Sciences and Faculty of Science | Chairperson of Faculty |
| 12. | Dr. Biplob Kumar Dey, Dean, Faculty of Pharmaceutical Science | Dean of Faculty |
| 13. | Dr. Sunandan Baruah, Dean, Research and Innovation | Dean, Research and Innovation |
| 14. | Prof.(Dr.) G. K. Upadhyay, Dean, Faculty of Engineering | Dean of Faculty |
| 15. | Dr. L. N. Kakati, Dean, Faculty of Science | Dean of Faculty |
| 16. | Prof. Seema Sharma, Dean, Faculty of Commerce and Management | Dean of Faculty |
| 17. | Prof. Manashi Sengupta, Dean, Faculty of Nursing | Dean of Faculty |
| 18. | Dr. Abhijit Dutta, Dean, Faculty of Paramedical Sciences | Dean of Faculty |
| 19. | Dr. Prateeti Barman, Dean I/C, Faculty of Humanities and Social Sciences | Dean of Faculty |
| 20. | Mr. Nitul Jyoti Das, Dy.Registrar (Academic) | Member |
| 21. | Dr. Bhola Chourasia, HoD, Hospitality and Tourism Management | Member |
| 22. | Prof. Dharmeswar Das, Chairman Research | Special Invitee |
| 23. | Dr. Ruhit Jyot iKonwar, Dy. Registrar (Academic) | Special Invitee |
| 24. | Dr. Yahya Mazumder, Dy.Registrar (Administration) | Special Invitee |
| 25. | Mr. Purba Prasad Borah, Deputy Director, Quality & Process | Special Invitee |
| 26. | Dr. Joydeep Goswami, Controller of Examination | SpecialInvitee |
| 27. | Dr. Debojit Bhattacharya, Dy. Controller of Examination | SpecialInvitee |
| 28. | Mr.BhabajyotiSaikia,OSDto Vice Chancellor | SpecialInvitee |
| 29. | Mr. Ashim Barman, Additional Registrar (Administration) | Member Secretary |

AdtU's QAQC at a Glance

The University operates with a decentralized and participatory administration for the management and normal functioning of the University, with an effective hierarchy structure. Under the functioning of this system the day to day governance is administered through decisions taken collectively by members of various committees constituted for the purpose. Most of the stakeholders are included in these committees for making decisions which ensures quality control and quality assurance as the underlying theme of operation. Periodical review on the functioning of the committees are carried out by statutory bodies concerned to improve the system. The best example that can be cited for the academic session 2020-21 is the successful implementation of the digitization of teaching learning process. The University is currently using ICT enabled tools PRAN for teaching and learning processes. The library of the institution provides academic and scholarly materials, e-contents, e-research journals, papers, etc. which can be accessed from anywhere via e-portal of the library. Some of the e-resources portals used by AdtU are DeLNET, Jgate, NDLI. The institution has made it mandatory for students to undergo e-learning courses on completion of which they receive an e-certificate. The University has been certified for digitization initiative with "E-Learning Excellence for Academic Digitization" by QS IGAUGE.

The University is governed by the Governing Body (GB) of the University under the assistance of Academic Council (AC) and Board of Management (BOM). The university adopts both top down and bottom up approach for effective functioning.

The following functional units/ committees besides the statutory bodies for effective functioning in the academic session include the following: .

1. Faculty Advisory Committee
2. Departmental Advisory Committee
3. Board of Studies
4. University Research Council
5. Faculty Research Council
6. Internal Quality Assurance Cell (IQAC)
7. External project review committee
8. Internal Project review committee
9. Examination committee
10. Student affair & student committee
11. Faculty Level students' affair committee
12. Placement Committee
13. Faculty Level placement committee
14. Steering Committee (Quality Circles)
15. Quality Circles
16. Anti ragging cell
17. Purchase Committee
18. Internal compliance Committee
19. Legal Compliance Committee
20. Disciplinary action committee
21. Grievance Redressal Committee
22. Campus development & management Committee

POLICY MATTERS

The following policy matters were important activities of the year 2020-21.

- The Examination cell revised the examination ordinance, rules and regulation with a committee of experts from the University and approval will be sought from Academic Council, Board of Management and Governing Body to make it effective and operational from 2022 session.
- An academic and Research architecture was put into place for due approval from the Academic Council and the Board of Management.
- Policies supporting Academic Ordinances covering different aspects of academic programmes, admission criteria, evaluation pattern, research, discipline and conduct etc. were drafted with the help of the Academic Council during the year.
- Consultancy Policy & Procedure were drafted during the academic session 2020-21.
- Policy Guideline for Creation of Data Pool for AdtU proposed.
- Policy for Organizing Events proposed.
- AdtU Ph.D. scholarship scheme for in-house Ph.D. scholars policy drafted.
- Policy for assigning weightage for different research activities formed.
- Privacy Policy (Website) drafted.

| QUALITY INITIATIVES | Date of conducting IQAC | Number of participants/ beneficiaries |
|---|---|---------------------------------------|
| Vice Chancellors' round table discussion on "NEP 2020 and Post covid era: The Challenging mission of Universities over time" | 12 th June, 2021 | 110 |
| Faculty & IQAC jointly organized Virtual Faculty Development Programme on "Statistical Methods in Biological Sciences" (In collaboration with Faculty of Science) | 29 th June to 5 th July, 2021 | 146 |
| Webinar on " Sustainability-adjunct to business continuity (A perspective for educational Institute) (In collaboration with Faculty of Humanities & Social Sciences) | 7 th January, 2021 | 80 |
| Webinar on " Excellence in Higher Education System: Role of Rankings & Benchmarking" | 21 st April, 2021 | 90 |
| 4th Management Review Meeting on Implementation of ISO 9001:2015 QMS | 11 th Dec, 2020 | 12 |
| Quality Management System Certification Surveillance Audit 2 | 17 th Dec to 19 th Dec, 2020 | 268 |

Policy Initiatives: 2020-21

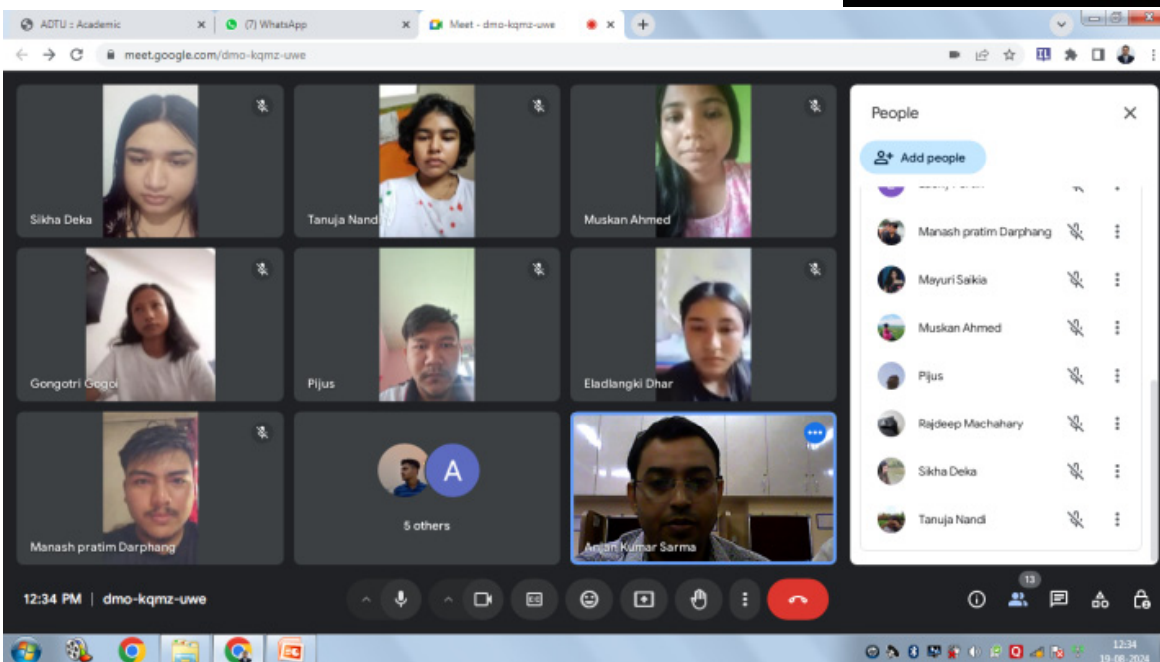
Capability enhancement and development schemes those are newly introduce

| Name of the capability enhancement scheme | Year of implementation |
|---|------------------------|
| Soft Skills Development | |
| Workshop on "The Ultimate Guide to Interview Success" | 2020-21 |
| Wardrobe Wisdom: Mastering Business Dress & Behaviour Etiquette for Success | 2020-21 |
| Language and Communication Skills Development | |
| Orator's Edge: Harnessing the Power of Public Speaking | 2020-21 |
| Effective Business Strategies for Success | 2020-21 |
| Navigating Communication Complexities: Strategies for Success | 2020-21 |
| Yoga and Wellness | |
| Yoga & Nutrition: The Essentials for Holistic Health | 2020-21 |
| Meditation for better Mental Health | 2020-21 |
| Analytical Skill Development | |
| Unlocking the Power of Microsoft Office: Training Workshop | 2020-21 |
| Human Value Development | |
| Transforming Lives: How Sustainable Development Goals Enhance Humanity? | 2020-21 |
| Ensuring Security: Aadhaar Linking and Digital Engagement | 2020-21 |
| Building a Better World: The Role of Universal Human Values | 2020-21 |
| Personality and Professional Development | |
| The Art of Influence: Communication and Personality Dynamics | 2020-21 |
| Employability Skills Development | |
| The Impact of Internships on Career Advancement | 2020-21 |

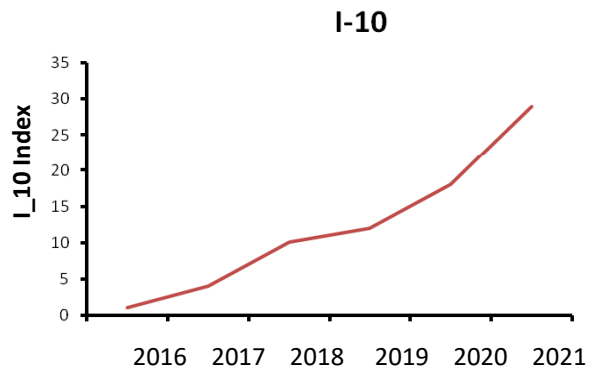
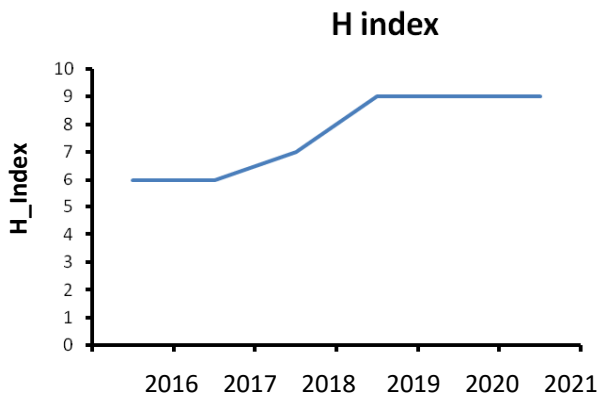
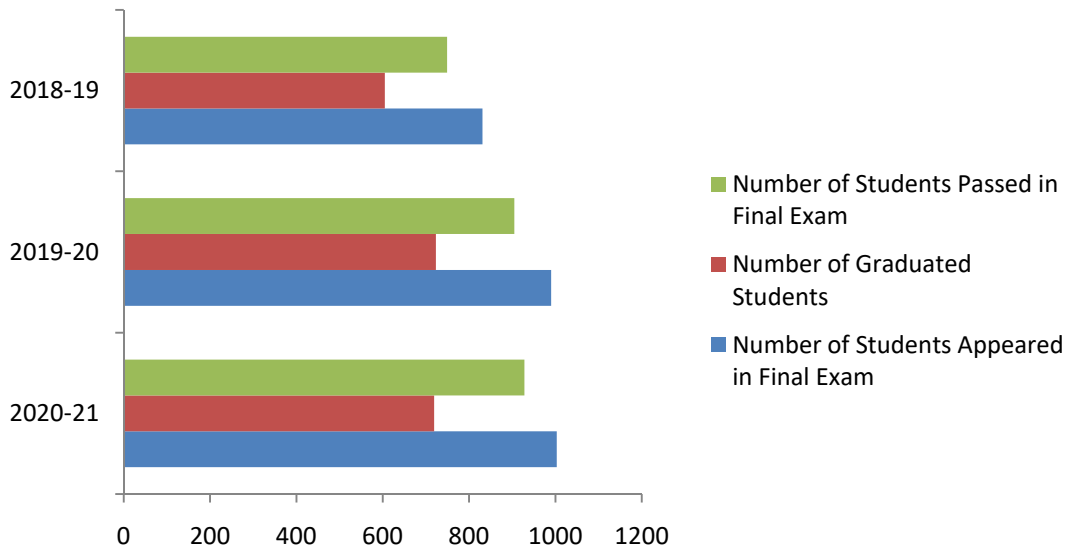
Policy Initiatives: 2020-21

The 2020-2021 academic year at AdtU was marked by significant challenges due to the COVID-19 pandemic, which necessitated an immediate shift from traditional classroom settings to online learning. Despite the abrupt transition, the faculty and students demonstrated remarkable resilience and adaptability. Faculty members embraced new technologies, underwent extensive training, and redesigned curricula to fit the virtual format, while students quickly adapted to online classes despite varying levels of access to technology. The university enhanced its digital infrastructure and provided support to address technical issues and maintain engagement. Efforts to support mental well-being further underscored the commitment to a holistic educational experience. This collective effort not only ensured the continuation of education but also fostered new skills and strengthened the academic community, highlighting the strength and adaptability of AdtU during this unprecedented time.

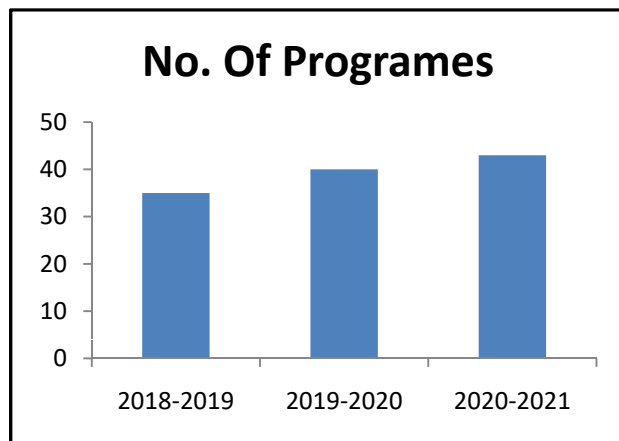
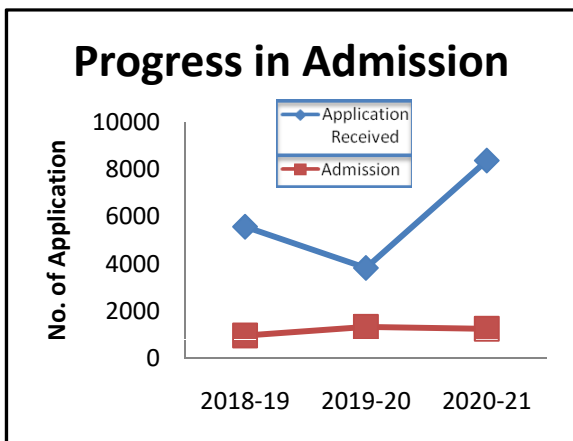
Example of how teachers conducted classes (Panel below) and the students (Side panel) took classes online using laptop and mobile, respectively during COVID 19 lockdown of 2020.



University Examination Outcome



| I | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------|------|------|------|------|------|------|
| H index | 06 | 06 | 07 | 09 | 09 | 09 |
| I-10 | 1 | 4 | 10 | 12 | 18 | 29 |



Celebrations at AdtU

Celebration of 74th Independence Day

On August 15, 2020, Assam down town University (AdtU) celebrated India's 74th Independence Day with an online event due to the restrictions caused by the COVID-19 pandemic. The virtual format enabled the university to honor the occasion safely while still capturing its essence. On campus, the flag was hoisted by the security personnel due to restrictions on gatherings imposed by the COVID-19 pandemic.



The 72nd Republic Day Celebration was held at Assam Down Town University on January 26, 2021.

In 2021, Assam Down Town University (AdtU) commemorated the 72nd Republic Day amidst the severe circumstances of the global COVID-19 epidemic. The esteemed Vice Chancellor addressed the gathering, recognizing the importance of the day.



Celebrations at AdtU

Celebration of National Unity Day

For National Unity Day, a virtual folk dance competition was organized to celebrate unity through dance. Dancers from different regions displayed their skills and cultural traditions by performing traditional folk dances.



Celebration of Children's Day at AdtU

To mark Children's Day, Assam down town University, as part of its Unnat Bharat Abhiyan initiative, provided food and clothing to the children of Rajabari Village, one of the university's adopted communities.



Teachers' Day Celebration at AdtU

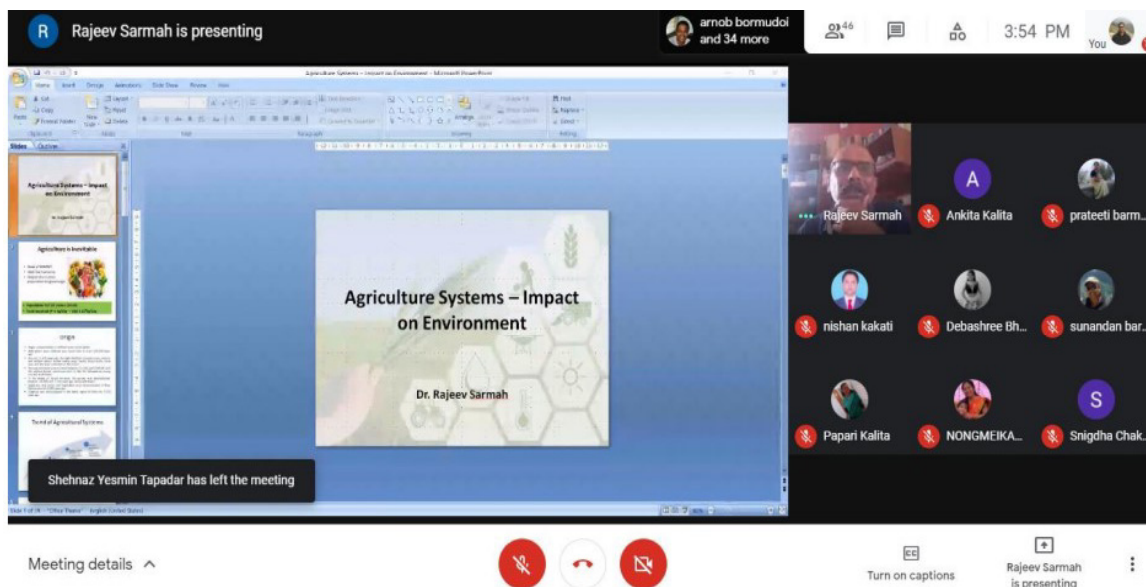
Teachers' Day is celebrated to honour the memory of India's first Vice President Dr. Sarvepalli Radhakrishnan, and to commemorate the importance of teachers in our lives. In AdtU, this year teacher's day was celebrated virtually.



Celebrations at AdtU

AdtU Observed “World Environment Day”

On World Environment Day, June 5th, Assam down town University hosted a webinar as part of its Swachhata Action Plan. During the event, Prof. Rajib Sarmah, Dean of the Faculty of Science, presented a lecture on "Agriculture Systems: Impact on the Environment."



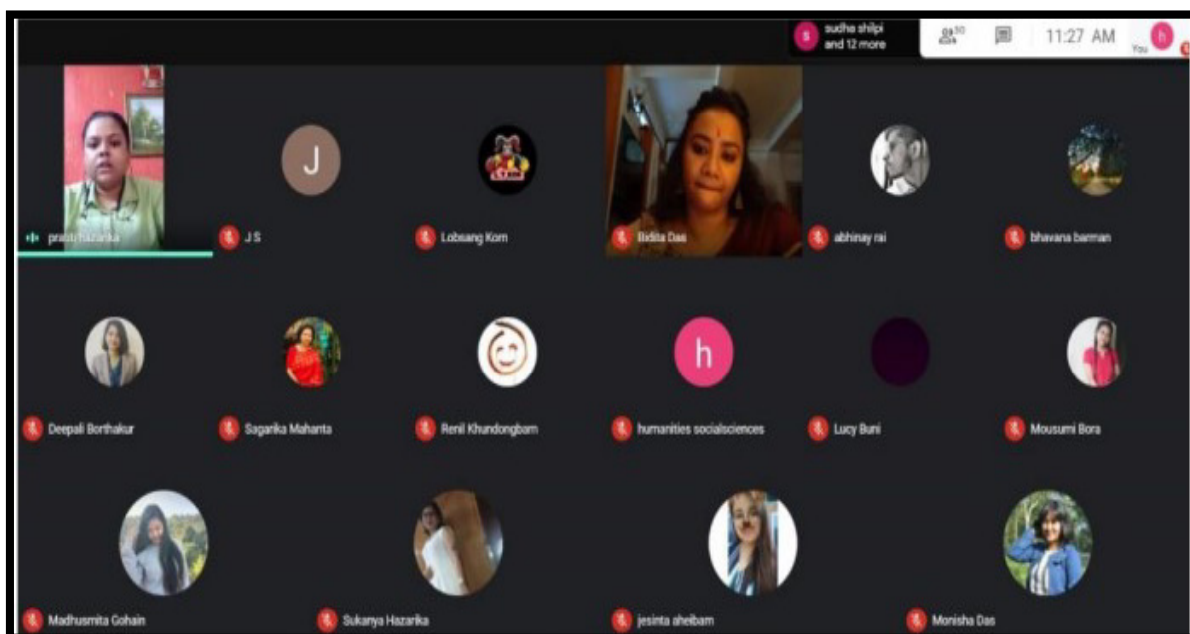
AdtU marked “World Health Day”

Assam down town University marked World Health Day on April 7, 2021, which is celebrated annually to honor the founding of the World Health Organization. This global awareness day is recognized by governments and non-governmental organizations around the world, focusing on public health issues. The theme for World Health Day 2021 was "Building a Fairer, Healthier World."



AdtU Observed “World Mental Health Day”

On October 10th, the Faculty of Humanities and Social Sciences at Assam down town University held a virtual event to observe World Mental Health Day, aiming to raise awareness about mental health issues.



AdtU Celebrated “World Social Work Day”

World Social Work Day 2021 was celebrated by the Social Work Program within the Faculty of Humanities and Social Sciences at Assam down town University, in collaboration with the Faculty of Engineering and Technology, Assam down town University, Panikhaiti, Guwahati. According to the International Federation of Social Workers (IFSW), World Social Work Day is observed annually on the third Tuesday of March, each year with a new theme aimed at promoting social well-being.



Celebrations at AdtU

AdtU Celebrated “World Tourism Day”

The Department of Hospitality and Tourism Management, part of the Faculty of Commerce and Management, organized an online event for World Tourism Day with the theme “Tourism: Building Peace.” The virtual program was attended by many students from the Department of Hospitality & Tourism Management, along with students from other institutions and faculty members. The session was highly interactive, with active participation from the students.

ASSAM
down town
UNIVERSITY
Encouraging Success

LIVE Session on Google Meet

SPEAKER

Prof. Monaj Dixit
Former Vice Chancellor
Dr. Rammanohar Lohia Avadh University

Virtual World Tourism day

THEME: “Tourism and rural development”

Organised by
Department of Hospitality & Tourism Management

27 Sep 2020
 11:30 AM

Poster making competition
Rangoli competition
Essay Writing competition

Open for all AdtU Students

AdtU Observed “World AIDS Day”

The M.Sc. Nursing students from the Faculty of Nursing at Assam Down Town University observed World AIDS Day 2020 with the theme "Global Solidarity, Resilient Services." The event aimed to raise awareness about HIV/AIDS and show international solidarity in response to the pandemic.



Celebrations at AdtU

AdtU Celebrated “International Yoga Day”

Given the COVID-19 situation, the event was held virtually, where students and staff of AdtU practiced yoga asanas and meditation. Master Jivanad Nitai, a former monk, yoga instructor, master healer, and Editor-in-Chief of the Bhaktivedanta Book Trust, Assam, with 15 years of experience, provided guidance on the asanas to enlighten the staff and students.

Assam down town University
celebrates

INTERNATIONAL YOGA DAY

21st June 2020 | 10 AM to 11 AM

Special invitee
Mr. Jivananda Nitai
Life coach and motivational speaker,
yoga trainer at " Amritam Yoga Care"

Moderator
Ms. Deepali Borthakur
Academic Officer and Assistant Professor,
Department of Humanities and Social Sciences,
Assam down town University

Demonstration
Ms. Lakhimi Gogoi
Lecturer, Faculty of Nursing,
Assam down town University

LIVE
Session on
zoom

<https://zoom.us/j/4407767431> | Meeting ID: 440 776 7431

AdtU Celebrated “World Pharmacist Day”

On September 25, 2020, the Faculty of Pharmaceutical Science at Assam down town University celebrated World Pharmacists Day with the theme "Transforming Global Health." Due to the COVID-19 pandemic, the event was held virtually.

**FACULTY OF PHARMACEUTICAL SCIENCE
ASSAM DOWN TOWN UNIVERSITY, GUWAHATI**

**WELCOMES YOU ALL
IN THE CELEBRATION OF
WORLD PHARMACIST DAY, 2020**

THEME : TRANSFORMING GLOBAL HEALTH



Celebrations at AdtU

AdtU Celebrated “International Women’s Day”

As part of the International Women’s Day celebrations, Assam down town University, in collaboration with Down Town Hospital for Women and Children, organized a health camp.



Glimpses of Campus Life



Glimpses of Campus Life

Rongali Bihu at AdtU

At the AdtU campus, **Rongali Bihu** was celebrated with a five-day workshop led by Mr. Rupjyoti Konwar, a renowned expert in Bihu dance and music. The workshop trained students in Bihu dance and singing. On the eve of Rongali Bihu, a cultural event showcased various forms of Bihu dance and songs performed by both students and faculty.



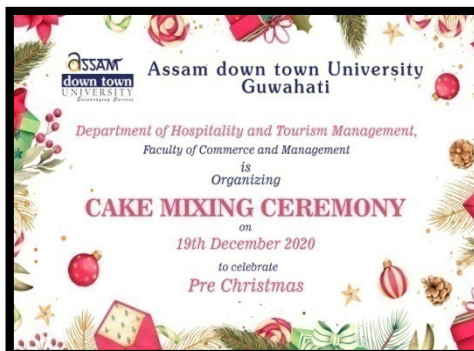
Glimpses of Campus Life

Pre-Christmas Celebration at AdtU

On December 23, 2021, Assam down town University's Music Club and Students Forum celebrated Christmas at the Amphitheater. The event featured a group of students performing carols, along with several students delivering solo songs.



The Cake Mixing Ceremony, which was a first for Assam down town University, marked the start of the pre-Christmas celebrations. The event was inaugurated by Hon'ble Vice Chancellor Prof. N.C. Talukdar, with notable attendees including Dean of Studies Prof. Bandana Dutta, Academic Chairperson Prof. S. Goswami, and Trustee Members.



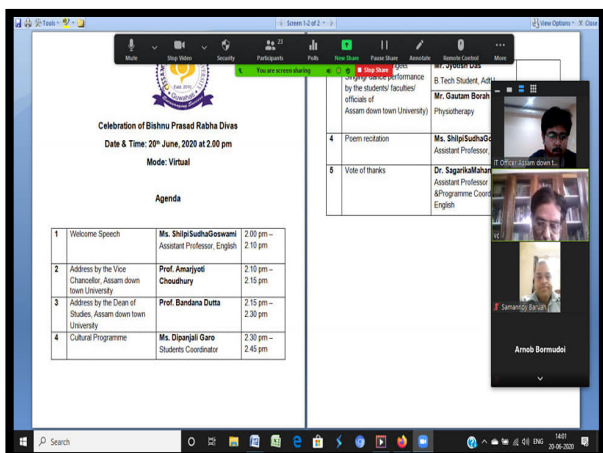
Glimpses of Campus Life

Commemorations of Prominent Personalities

1. Assam down town University commemorated the 69th Silpi Divas on January 17 to honor Rupkwar Jyotiprasad Agarwala, the renowned cultural icon and freedom fighter. The event started with lighting of lamp and offering of flowers followed by a tribute by our Vice Chancellor. On the occasion of Silpi Divas, AdtU organized cultural function where our employees paid tribute to Jyoti Prasad Agarwala by singing and dancing on his compositions.



2. On April 10, 2021, Assam down town University observed Rabha Divas, marking the death anniversary of Kalaguru Bishnu Prasad Rabha, through a virtual event. During the program, Prof. Bandana Dutta, Dean of Studies, delivered a speech highlighting the ideology of Bishnu Prasad Rabha and performed a song in his honor. The event also featured various cultural performances by faculty and students, which were well-received by the audience.



Glimpses of Campus Life

3. On 23th January 2021, Drishya Drama club, Assam down town University has organized a Monologue competition on the occasion of **Netaji Subhas Chandra Bose Jayanti**.



4. On October 2, 2020, Assam down town University celebrated **Gandhi Jayanti** while adhering to social distancing guidelines. The event included a Swachhata (cleanliness) campaign, aimed at promoting cleanliness and hygiene among the local community. Despite the challenges posed by the pandemic, the university's efforts to honor Mahatma Gandhi's legacy were carried out with a focus on public health and community service.

ASSAM
down town
UNIVERSITY
Uninterrupted Success

On the occasion of
Gandhi Jayanti
2nd October 2020

Assam down town University
is organizing an
ART COMPETITION

Theme: Non-violence
For Students of Class: 3 to 8

You may send your entries on this E-mail id: bormudoi@gmail.com
on or before 30th September, For any queries- 70022 69665

First three winners
Prize Money Trophy Certificate



Student's Annual Week

"ATTITUDE"-2021



Student's Annual Week

Record of Sports, cultural, and other activities

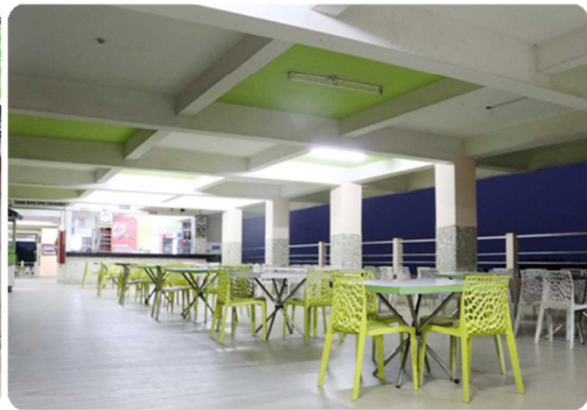
| Sports Competition arranged in campus | |
|---------------------------------------|--|
| 2020-21 | Badminton Tournament 2021 (Boy's & Girl's) |
| 2020-21 | Running Competition (Boy's & Girl's) |
| 2020-21 | Carom Competition |
| 2020-21 | Foot Ball |



| | |
|--|----|
| Number of Awards / Medals Received from state/regional/national events | 02 |
|--|----|

| ALUMNI ASSOCIATION ACTIVITY | |
|-----------------------------|------------------|
| DATE | TYPE OF ACTIVITY |
| 23-09-2020 | ALUMNI WEBINAR |

Infrastructure of 2020-21



Glimpses of infrastructure which catered to the need of students during academic session 2020-21.

Infrastructure of 2020-21



Infrastructure of 2020-21

AdtU is growing in terms of number of students, faculty and staff every passing year since its foundation in 2010. To cater to the need of increasing demand, AdtU has been adding new items to its infrastructure every year through carefully planned strategy for development. During the academic session 2020-21 it has developed more classrooms for students enhancing it to 204 and additionally it developed 58 smart classrooms and several new laboratories for facilitating practical classes across different Faculties. Currently 82 laboratories are available for students practice class. Overall the number of auditorium in AdtU was increased to 9, and seminar/conference halls to 9. The central library was facelifted with uninterrupted power supply, faculty rooms, seminar halls and the learning resources of the library were increased with addition of e-resources and video centre. The library is facilitated with high speed internet by connecting with a dedicated lease line. Furthermore, many other facilities such as counseling room, language lab, media lab, Central Instrumentation Facility lab were developed during the academic session. The facilities such as computation systems, high end projectors, headphones, laptops as Audio-Visual aids for improved teaching-learning were created. The AdtU campus already has well equipped playground, gymnasium, Swimming Pool and Hostel, and facilities like Xerox, Stationary and Grocery store and during the year, these facilities were further upgraded.

The University has added more sitting space in the Amphitheatre which now has 4000 capacity for accommodating large audience to attend cultural activities. AdtU also has a cinema hall, Board Room, Council Room and Seminar Hall for meetings and also cultural activities for audience of varying size. Faculties and students have access to both indoor and outdoor sports facilities on daily basis. It also has developed Gymnasium, yoga centre, indoor stadium, an indoor swimming pool, with professional instructors to guide the students.



The campus also has a medicine outlet along with qualified doctor for students, faculty and staff to avail consultation for both general health and emergency situation. One ATM located in B Block, and 5 canteens located at different blocks inside the campus. A departmental store with wide range of grocery and stationary items, a bakery unit cater to the need of AdtU fraternity, an animal shelter, two ponds, a medicinal garden are maintained within the campus.

Infrastructure of 2020-21

A. Boys Hostels



B. Girls Hostel



A. Pharmacy Corner



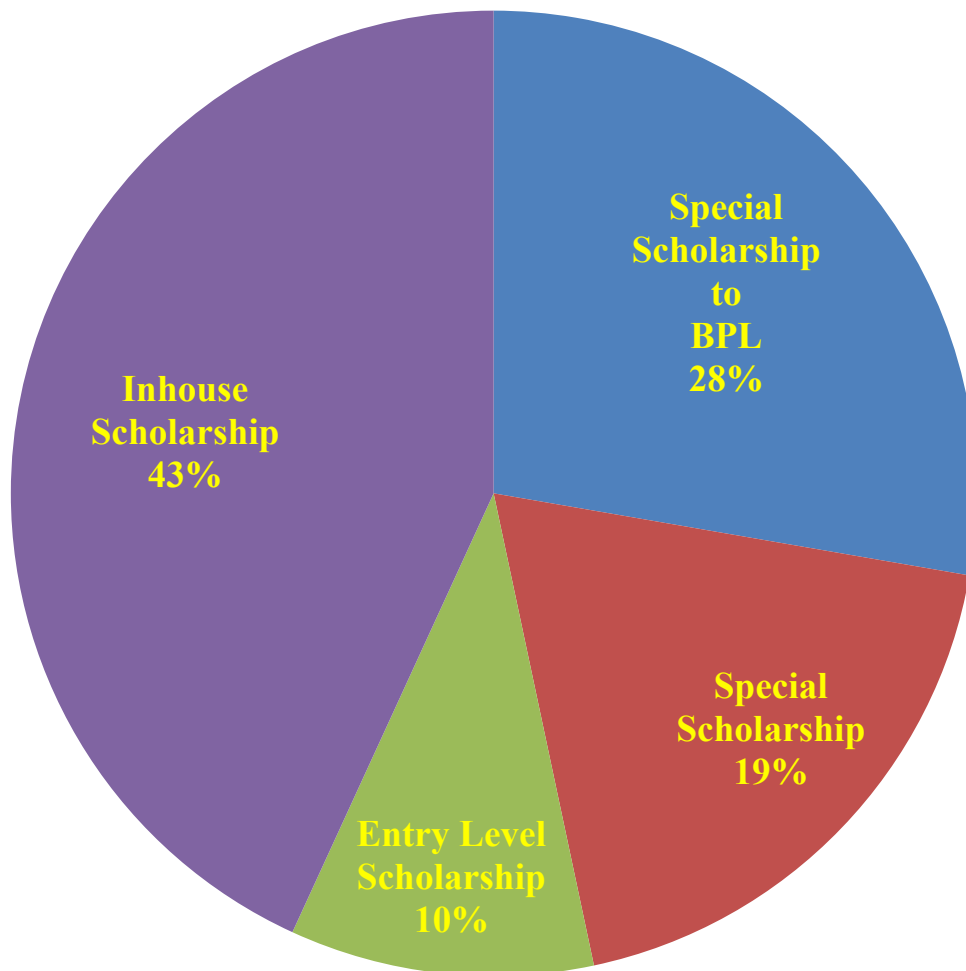
Table: Size of few salient facilities inside AdtU campus

| Facilities | Number | Size |
|-------------------|--------|------------|
| Football Field | 01 | 7000 SqM |
| Gymnasium | 01 | 242.25 SqM |
| Volley Ball Court | 02 | 891 SqM |
| Basket Ball Court | 01 | 961 SqM |
| Badminton Court | 02 | 216.7 SqM |
| Table Tennis Room | 05 | 142.7 SqM |
| Yoga Room | 01 | 157.4 SqM |
| Swimming Pool | 01 | 650 SqM |
| Amphitheatre | 01 | 2656 SqM |
| Angling Pond | 04 | 8378 SqM |

Scholarship

Report of Student Scholarship for the Academic year 2020-21

During the Academic Year 2020-21, 4 types of scholarships are available for the students. The percentage of total students under each category of scholarship, who availed scholarship is presented in the pie diagram below.



Support of Placement Cell of AdtU in getting job

Job fair is held before the final examination of the outgoing batch where large number of recruiting organizations joined and the students interviewed. The list of the recruiters and number of students recruited is shown in the table.

Table: The details of recruiting organizations and no. of students recruited with salary package

| Sl. No. | Name of the top 10 Recruiting Organization | No. of students recruited | Highest Salary Offered (LPA) |
|---------|--|---------------------------|------------------------------|
| 1. | BYJU'S | 04 | 10.0 |
| 2. | NESTLE | 02 | 7.00 |
| 3. | ICICI BANK | 13 | 4.12 |
| 4. | BAJAJ ALLIANZ | 05 | 3.50 |
| 5. | WIPRO | 02 | 3.08 |
| 6. | EXTRAMARKS | 04 | 3.00 |
| 7. | CHOLAMANDALAM | 02 | 3.50 |
| 8. | RRC NE | 01 | 4.20 |
| 9. | JORHAT INSTITUTE OF NURSING | 02 | 3.00 |
| 10. | GMCH, GUWAHATI | 01 | 3.48 |

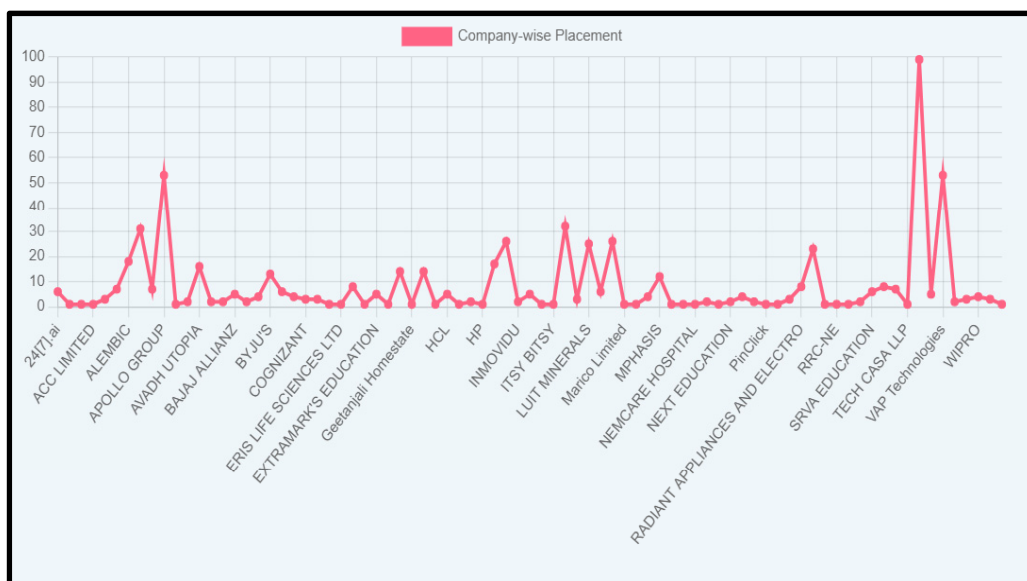


Fig.: The company-wise placement of final year outgoing students of the academic year 2020-21

List of Student's Events during 2020-21

| Date | Name of the Event | Organizer | Venue | Number of Participants |
|--------------------------|--|--|-------------|------------------------|
| 27-01-2020 | Awareness Campaign on Prevention of Sexual Harassment (PoSH) | AdtU | AdtU Campus | 151 |
| 26-02-2020 | Lecture demonstration/ Sitar recital | SPIC MACAY | AdtU Campus | 40 |
| 28-06-2020 | Bishnu Rabha Divas | AdtU | Virtual | 25 |
| 25-07-2020 to 26-07-2020 | Kargil Vijay Divas | AdtU | Virtual | 14 |
| 01-08-2020 to 14-08-2020 | Atma Nirbhar Bharat | AdtU | Virtual | 16 |
| 07-09-2020 to 14-09-2020 | Job Fair | AdtU | Virtual | 5000 |
| 09-09-2020 | Janmashtami | Department of Performing Arts, FHSS | AdtU Campus | 700 |
| 22-12-2020 | Cake Mixing Ceremony | Department of Hospitality & Tourism Management | AdtU Campus | 35 |
| 23-12-2020 | Webinar on Functional Foods and their Health Effects | AdtU | Virtual | 97 |
| 17-01-2021 | 69 th Silpi Divas | AdtU | AdtU Campus | 281 |
| 02-02-2021 | Raas Mahotsava | Auniati Satra Majuli | AdtU Campus | 800 |
| 16-02-2021 | Saraswati Puja | AdtU | AdtU Campus | 300 |
| 20-02-2021 | Lamp lighting & Oath Taking Ceremony of Nurses | Faculty of Nursing | AdtU Campus | 182 |

List of Student's Events during 2020-21

| Date | Name of the Event | Organizer | Venue | Number of Participants |
|--------------------------|--|--|-------------|------------------------|
| 22-02-2021 | Lecture to Commemorate the death anniversary of late Sahityaratna Harinarayan Dutta Baruah | AdtU | AdtU Campus | 100 |
| 15-03-2021 to 20-08-2021 | Attitude, 2021 | AdtU | AdtU Campus | 3500 |
| 10-04-2021 | Bohagi Utsav | AdtU | AdtU Campus | 300 |
| 08-05-2021 to 26-05-2021 | Voice of Young Minds | AdtU | Virtual | 200 |
| 12-05-2021 | Nurses Day, 2021 | Faculty of Nursing, AdtU | Virtual | 30 |
| 15-05-2021 | Placement Month, 2021 | AdtU | Virtual | 500 |
| 19-05-2021 to 31-05-2021 | My Snap Story – A Photography Competition | AdtU | Virtual | 592 |
| 22-05-2021 | Restructuring Happiness amidst Corona through IKIGAI | Faculty of Commerce and Management, AdtU | Virtual | 100 |
| 16-06-2021 | NEP 2020 with reference to HECI | Faculty of Commerce and Management, AdtU | Virtual | 100 |
| 17-06-2021 | Essay Competition | Literary Club of AdtU | Virtual | 41 |
| 20-06-2021 | Rabha Divas | AdtU | Virtual | 400 |
| 29-07-2021 | Quiz Competition on COVID-19 | Faculty of Nursing, AdtU | Virtual | 20 |

Equity and Inclusive Philosophy of AdtU

The paradigm of wisdom and understanding the world from a global perspective, require integration of knowledge of culture, community, heritage, and science, and only then it is possible to appreciate that it is possible to build environment of brotherhoods in learning temples. The philosophy of equity, inclusiveness, and openness in a University is, therefore, an intrinsic requirement. Assam down town University was founded on the principles of openness, equity, and inclusiveness. This principle enabled the inclusion of a diverse group of students from the North East (NE) region of India and abroad. Presently it is accommodating students from different states of India and also from foreign countries such as Nigeria, Bhutan, Bangladesh, and Nepal. The University's inclusivity philosophy seen in action in terms of provision of admission to meritorious students but economically weaker section of society with a complete fee waiver. There are as many as 50 students pursuing higher education under this scheme inside AdtU campus. The admission of students and appointment of teachers are held with no discrimination based on caste, creed, and gender, creating a brotherhood environment. Therefore, learning of stakeholders at Assam down town University happen with broader perspectives of equal dignity, mutual respect, and wider horizons of knowledge, humanism and overall goal of development of global citizen.

Many students from economically weaker sections of society and female gender pursuing degrees which exemplify the University's openness, equity, and inclusiveness philosophy. The Assam down town University created such an environment by framing specific rules and regulations and encouraging functions of various clubs such as cultural, art, and sports, where students join voluntarily and avail the opportunity of building through these social platforms the feeling and making of friendship, brotherhood, unity, social service, and social responsibility. This philosophy is not restricted to only students but faculty members, officers, and other staffs alike can also avail this opportunity. AdtU is committed to safeguarding the interests of the students and staff members alike without any prejudice against their caste, creed, religion, language, ethnicity, gender, and disability.

Thus, for us "Equity" mean equal opportunity for all students and employees in respect of any opportunity and entitlement, ensuring inclusivity for the enjoyment of all legitimate rights. The University critically assesses itself for attainment of this principle through internal and external, academic, and administrative audits and is open for an ascending development.

Equity and Inclusive Philosophy of AdtU

The activities performed during the academic year regarding the philosophy of openness, equity, and inclusiveness.

Awareness of Equality and Value System in the University

The University organized regular events for raising public awareness on the importance of equality and value-based education amongst students and staff to ensure overcoming any form of caste-based discrimination and harassment against students/ employees/applicants belonging to the marginalized sections, including SC/ST students/employees/applicants of the society. It is committed towards strict implementation of all the constitutional provisions and protective measures in respect of students/employees/ applicants belonging to SC/ ST categories.

Principles of Equity and Inclusion in Teaching

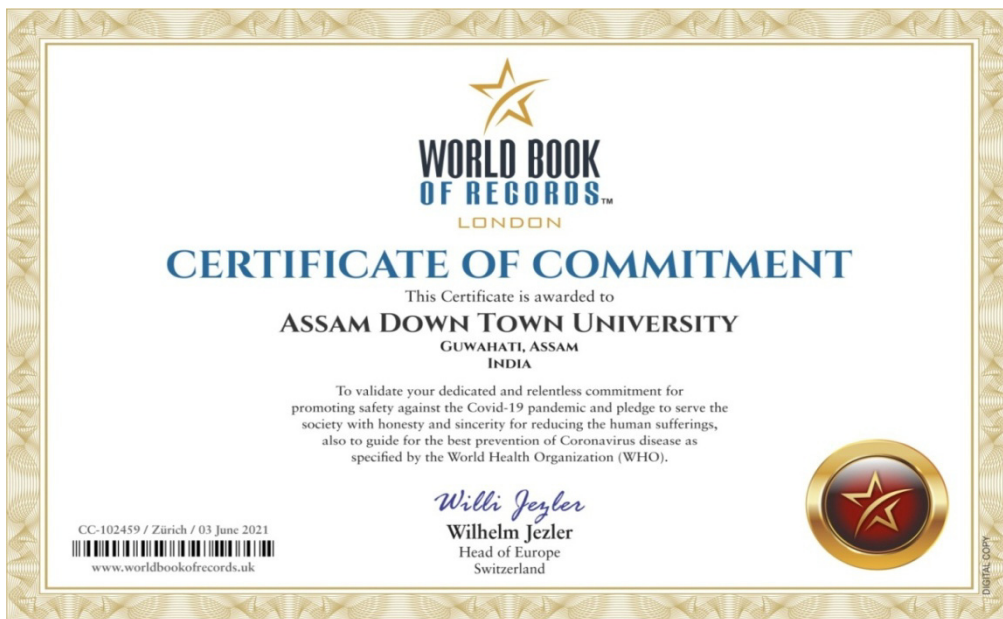
The goal of equitable teaching is to provide needs-based support to ensure equitable learning opportunities. The objective of an inclusive classroom is for all students to be valued in the classroom for their diverse abilities, experiences and perspectives. This is accomplished through methods, strategies and materials that are not only diverse (related to race ethnicity, gender, sexual orientation, culture, religion, mental and physical ability, and socio-economic status), but also accessible (limiting barriers of access to all students). In an equitable and inclusive classroom, every student has equal access to learning and feels valued and supported by their instructor and peers. These learning environments emphasize the importance of cultural awareness and value all social identities.

Scholarship Schemes

Besides the Government sponsored scholarship programs for different categories of students and students belonging to different categories of society, AdtU offers merit based scholarship named CST. Like every other year, this year also before the admission of new batch, a common scholarship test was conducted for the applicants. On the basis of rank secured, students were offered scholarship which was equivalent to the fees for pursuing the study in the program concerned. Other than this, University also offer scholarship to students who secure the highest marks in the class every semester. Through this scholarship, the students avail free education for that particular semester. This initiative of the Management has built a healthy competition environment among the meritorious students to express their intellect.

Accolade Inscribed

| |
|---|
| Membership of Swacchta Action Plan Initiative, Ministry of Education |
| Certificate of Appreciation for valuable contributions in the fight against Covid-19 by Health & Family Welfare, Govt. of Assam |
| Membership of Higher Learning Accreditation Consultant & Training (HLACT) |
| Membership of Education Promotion Society for India (EPSI) |
| Certificate of Excellence for Best Institute for Campus Life by Reimagine Inc (MHW Ranking 2021) |
| Certificate of Commitment for promoting safety against the Covid-19 |





সমষ্টি সত্য
Government of Assam

**Department of Health & Family Welfare,
Government of Assam**

PRESENTS

Certificate of Appreciation to

Downtown University,
Guwahati

The valuable contribution made by your esteemed institution in the fight against Covid-19 in the State of Assam will be remembered for posterity.

The Department of Health & Family Welfare, Government of Assam takes utmost pride in honouring your distinguished institution as a mark of gratitude on behalf of the people of Assam.

Shri. Samir Kr. Sinha, IAS
Principal Secretary
Health & Family Welfare
Government of Assam

Dr. Himanta Biswa Sarma
Hon'ble Minister
Health & Family Welfare
Government of Assam



M.No. : UNI-2015/010



MEMBERSHIP CERTIFICATE

This is to certify that

ASSAM DOWN TOWN UNIVERSITY

is admitted as a

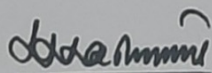
MEMBER

of

Education Promotion Society for India

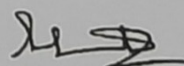
*in recognition of their commitment to the Indian Education
and support to the objectives of the Society*

Given under the Common Seal of the Education Promotion Society for India



ALT. PRESIDENT





PRESIDENT



सत्यमेव जयते

Certificate



This is to recognise Assam Down Town University, as a Member of Swacchta Action Plan Initiative. The Institution has constituted Swachh Core Team in their campus under Swachh Bharat Mission. This Institution has formed 5 Teams consisting of faculty members and students in Sanitation & Hygiene, Waste Management, Water Management, Greenery and Energy Conservation to make their campus eco-friendly, green and self-sustainable.

Dr. W G Prasanna Kumar

Chairman

Mahatma Gandhi National Council of Rural Education

Department of Higher Education, Ministry of Education

Government of India

Accolade -Faculty Members

| Name of full time teachers receiving awards from state level, national level, international level | Year of Award | PAN | Designation | Name of the award, fellowship, received from Government or Government recognised bodies |
|---|---------------|------------|---------------------|---|
| PROF. NIRMALI GOGOI | 2021 | AGNPG7019C | PROFESSOR | INTERNATIONAL SCIENTIST AWARD ON ENGINEERING, SCIENCE AND MEDICINE |
| DR .(PROF) GITUMONI KONWAR | 2021 | ANHPK9967C | DR (PROF) | ISSN (INTERNATIONAL SOCIETY FOR SCIENTIFIC NETWORK AWARDS) |
| Dr. Bhola Chaurasia | 2021 | AHMPC5076F | Associate Professor | Global Hospitality and Tourism Leadership award for best HoD of the year 2020 |
| Dr. Bhola Chaurasia | 2020 | AHMPC5076F | Associate Professor | Perficio Award for best HoD |
| Dr. Bismita Choudhury | 2020-2021 | ARKPC3803E | Assistant Professor | Membership Confirmation IEEE |
| Mr. Biswadeep Bharali | 2020-2021 | BUVPB5798N | Assistant Professor | Elected as Affiliate Member for ASCE |

Accolade - Students

| Name of the award/ medal | Team / Individual | Inter-university / state / National / International | Name of the event | Name of the student |
|--|-------------------|---|--|-------------------------------------|
| Bir Chilarai Award | Individual | State | Best NCC Cadet | Subham Singh |
| 1st Position | Individual | National | All india Current affairs and quiz | Jyotishmoy Borah |
| 3rd in SOLO drawing competition | Individual | State | DN rang manch Bobgaigaon | Jiasha Nath |
| Most number of certificates within 23 days | Individual | International | N/A | Uzlifat Md Rizwanul Hasan Choudhury |
| Winner | Team | State | Koushik Baruah Memorial Inter College Cricket Tournament KBM-8 | Chandan Sonowal |
| Bhupendra Sangeet | Individual | Inter-university | Bhupendra Sangeet Competition | Sinmoy bParasar |
| 1st position | Individual | State | Junak Sanskriti Mancho (Online dance competition) | Ms Sayantani Ghosh |
| 1st position | Individual | State | All Assam based solo online dance competition organised by Kala Darshan Sangskritik Gusthi | Ms Sayantani Ghosh |
| 2nd Position | Individual | Inter-university | Painting, World Pharmacist Day 2020 Nemcare | Tazmina Sultana Hussain |
| 2nd Position | Individual | Inter-university | Extempore Speech Competition on World Pharmacist Day | Pervej Alom Barbhuiya |



Glimpse of biodiversity inside AdtU campus



For further details please contact: **Registrar, Assam down town University**, Sankar Madhab Path, Gandhi Nagar, Panikhaiti, Guwahati, Assam, India, Pin- 781026. Landline +913617110711 Mobile +91 9957261141, +919954325916; registrar@adtu.in
For specific admission details Please contact +91 98641 27777 & 891 93657 71454