

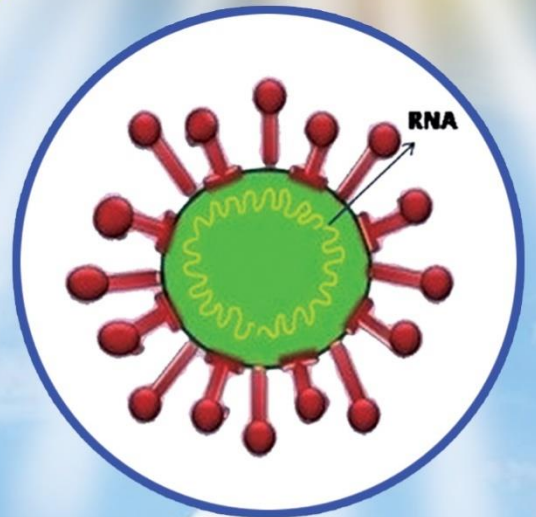


# Annual Report 2020-21



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

# CONTENTS

<b>Vision, Mission and Core Values</b>	<b>1</b>
<b>Chancellor's Message</b>	<b>2</b>
<b>Foreword</b>	<b>3</b>
<b>AdtU's Growth Trajectory</b>	<b>4</b>
<b>University at a Glance</b>	<b>5</b>
<b>Newly admitted Student's distribution</b>	<b>6</b>
<b>Accreditations</b>	<b>7</b>
<b>Academic's Outcome</b>	<b>8</b>
<b>Academic's Growth</b>	<b>10</b>
<b>The Curriculum, Syllabi and Courses</b>	<b>11</b>
<b>The Teaching, Learning and Evaluation Process</b>	<b>13</b>
<b>Graduation Ceremony</b>	<b>15</b>
<b>Human Resource</b>	<b>18</b>
<b>Faculty Development Initiative</b>	<b>19</b>
<b>AdtU Takes off in Research Front</b>	<b>20</b>
<b>Research Highlights</b>	<b>21</b>
<b>Research Outcomes</b>	<b>27</b>
<b>Research Publications</b>	<b>41</b>
<b>Innovative Research</b>	<b>43</b>
<b>AdtU's Consultancy- a way of Revenue</b>	<b>45</b>
<b>AdtU's Meet and Exposure Parley</b>	<b>46</b>
<b>Webinars</b>	<b>59</b>
<b>Alliance for Growth</b>	<b>61</b>
<b>Outreach Activities</b>	<b>62</b>
<b>Recognitions</b>	<b>66</b>
<b>Leadership &amp; Governance</b>	<b>67</b>
<b>Governing Body and Finance Committee</b>	<b>68</b>
<b>The Board of Management</b>	<b>69</b>
<b>The Academic Council</b>	<b>70</b>
<b>Budget for the Academic Year</b>	<b>71</b>
<b>Finance Audit Report</b>	<b>72</b>
<b>AdtU's QAQC at a Glance</b>	<b>73</b>
<b>Policy Initiatives</b>	<b>74</b>
<b>Progress Summary- Academics/ Research</b>	<b>77</b>
<b>Celebrations at AdtU</b>	<b>78</b>
<b>Glimpses of Campus Life</b>	<b>85</b>
<b>Student's Annual Week</b>	<b>90</b>
<b>Infrastructure</b>	<b>92</b>
<b>Scholarship</b>	<b>96</b>
<b>Support of Placement Cell</b>	<b>97</b>
<b>List of Student's Events</b>	<b>98</b>
<b>Equity and Inclusive Philosophy</b>	<b>100</b>
<b>Accolade</b>	<b>102</b>

## 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.

N. N. Dutta

Chancellor, Assam down town University

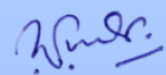


Assam down town University (AdtU) has successfully completed another eventful and productive year marked by diverse activities in academics, research, and outreach. Nestled between the mighty Brahmaputra and Amchang reserve forest, AdtU boasts of its lush green campus that offers serenity and purity 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.

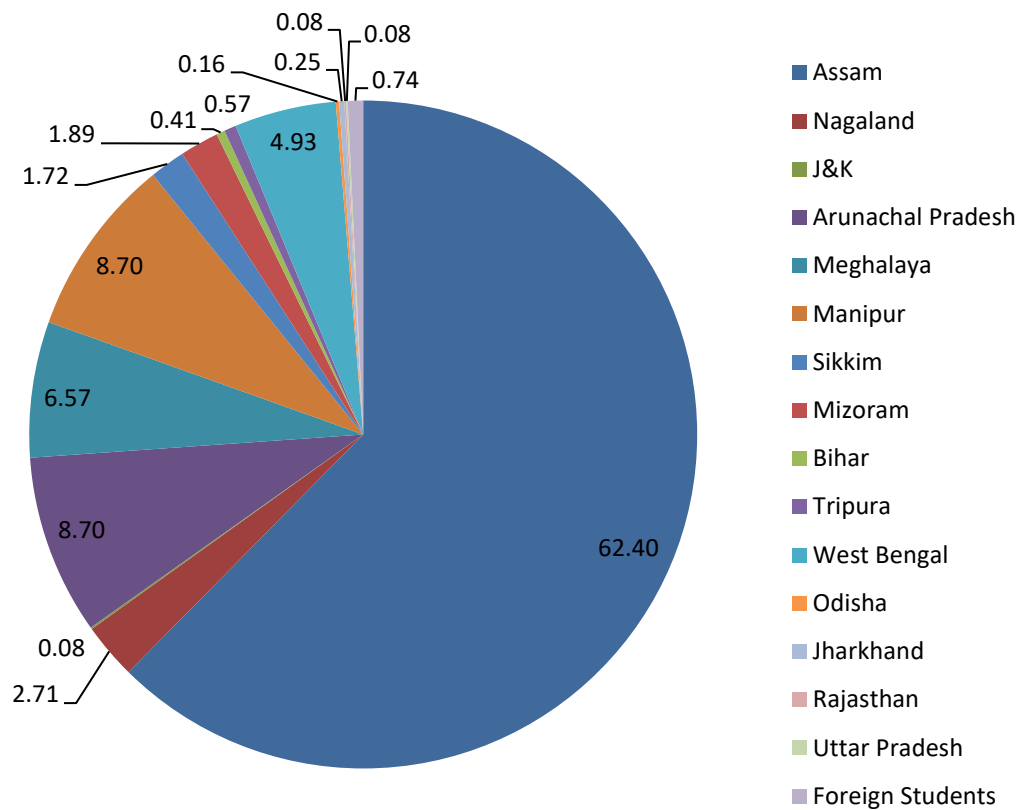
For academics and research improvements, the university has established collaboration with several National and research & academic institutions such as NEIST (North East Institute of Science and Technology), Jorhat, IASST-DST, Guwahati, IIT Guwahati Biotech Park, and the foreign university namely Daffodil 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

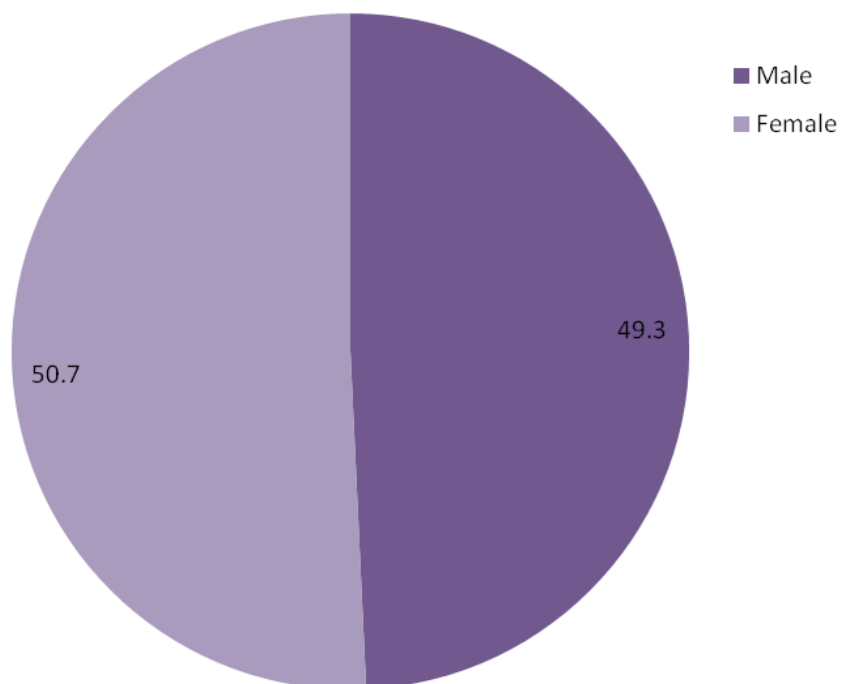
Vice Chancellor	Prof. (Dr.) N. C. Talukdar
Institutional Status	Private University
NAAC	B, 2.23 CGPA
Others	ISO 1900-2015
<p>Ranked in A3 Band-Institute of Excellence in MHW Ranking 2021 in the pursuit of excellence towards best institute for campus life and mental health wellbeing. Received membership 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 &amp; 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>	
<p><b>Quality Enhancement and Outcomes</b></p>	
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 Ph.D. schemes for in house Ph.D. 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	<b>43</b>
Students Admitted	<b>1218</b>
Number of Ph.D. Scholar on roll	<b>56</b>
Graduated Students	<b>719</b>
Full Time Teacher	<b>315</b>
Number of extramural funded project	<b>02</b>



## 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  
 Engineer, Class. cell no. 116-802  
 Bahadurshah Zafar Marg, New Delhi-110002  
 Phone : 011-23604329, 011-23604431

  
 www.adtu.ac.in  
 E-mail : [adtu@adtu.ac.in](mailto:adtu@adtu.ac.in)  
 T NOV 2019  
 November, 2019

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,  
  
 Under Secretary

ৰাজপত্ৰ নং - 198/11  
 Registered No. - 768/97  
 অসম ৰাজপত্ৰ  
**THE ASSAM GAZETTE**  
 অসাধাৰণ  
**EXTRAORDINARY**  
 প্ৰাপ্ত কৰ্তৃক বাৰা প্ৰকাশিত  
**PUBLISHED BY THE AUTHORITY**

নং 113 শিখৰ, বুধবাৰ, 29 এপ্ৰিল, 2010, 9 বজা, 1932 (স্ব)  
 No.113 Diaper, Thursday, 29th April, 2010, 9h Balaishah, 1932 (S.E.)

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

**NOTIFICATION**  
 The 29th April, 2010

No.1.C.I.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 28th April, 2010)  
**THE ASSAM DOWN TOWN UNIVERSITY ACT, 2010**

Certificate IN19/05894  
 The management system of  
**Assam Downtown University**

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

This certificate is valid from 18 March 2022 until 07 February 2025 and remains valid subject to satisfactory surveillance audits.  
 Issue 2. Certified since 07 February 2019.  
 Last certificate expiry date 07 February 2022  
 Re-certification audit date 18 January 2022  
 Audited by  
  
 SGS United Kingdom Ltd  
 Riverside Business Park, Cleworth Park, Cleworth, Derby, Derbyshire, DE12 9JG, UK  
 T +44 (0)1293 750500, www.sgs.com

This document is issued by the Company, subject to its General Conditions of Certification Services. AssureCert Group plc, 100, Cannon Street, London, EC2A 4DF, UK. For more information on our services, please visit our website at [www.sgs.com](http://www.sgs.com). The authority of the document is subject to the conditions of the contract. The document is not valid for use in any other context. Any unauthorised use or reproduction of the document is strictly prohibited. The document is not valid for use in any other context. Any unauthorised use or reproduction of the document is strictly prohibited.

Page 1/1

  
**PHARMACY COUNCIL OF INDIA**  
 E-mail : [registrar@pci.nic.in](mailto:registrar@pci.nic.in) NBCC Centre, 3rd Floor Plot No.2, Community Centre  
 Website : [www.pccnic.in](http://www.pccnic.in) Mai Anandamayi Mary Okhla Phase I  
 Contact : 011-61299900/01/02/03 NEW DELHI - 110020

**DECISION LETTER**  
 Institute Name / Inst ID : Department of Pharmacy Faculty of Pharmaceutical Science Assam down town University/PCI-S48  
 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 40 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 Archna Mridal  
 Registrar-cum-Secretary  
 PCI

Copy to:

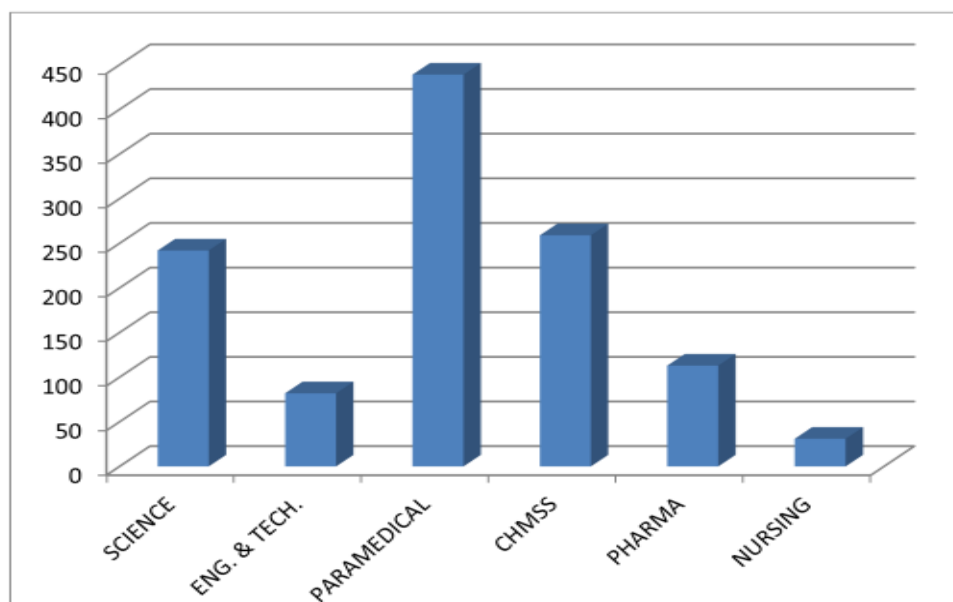
- i) Registrar of the University
- ii) Principal of the college
- iii) Secretary/Chairman of the Trust/Society
- iv) Guard File (PCI)

Note: Validity of the course details may be verified at [www.pccnic.in](http://www.pccnic.in).

# Academic's Outcome

## Academic's Success of 2020-21

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 Sciences, 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.



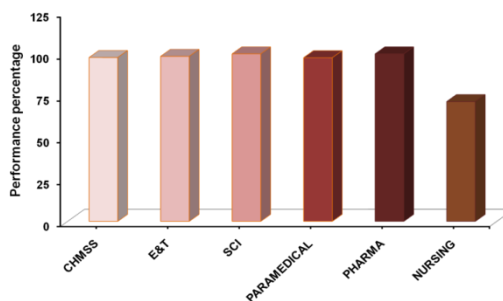
**Fig.1: Number of students admitted under different Faculties of AdtU in the academic session 2020-21.**

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 3<sup>rd</sup> week of June and completed on 1<sup>st</sup> 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 question 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
SCIENCE (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 SCIENCES (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	BTD	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
PHARMACEUTICAL SCIENCE (PHARMA)	Bachelor in Performing Arts	BPA	1	2
	Master of Pharmacy	MPS	12	15
NURSING	Bachelor of Pharmacy	BPS	110	98
	M.Sc-Nursing	MNU	12	13
	B.Sc-Nursing	BNU	56	58

Table 1

## 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 entrepreneurs 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 SCIENCES	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.

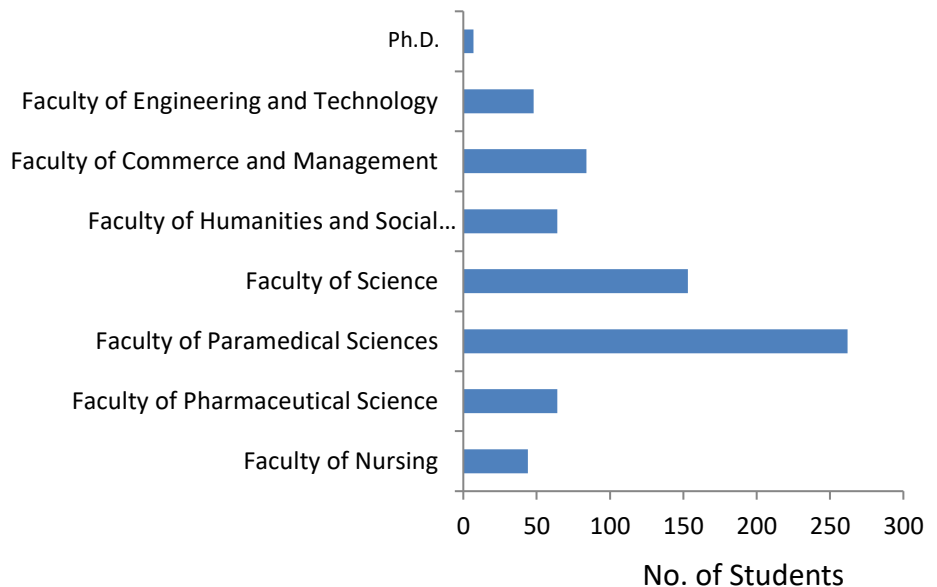




# Graduation Ceremony

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 Ph.D. 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 Ph.D. Awarded highlighting their works

### List of Ph.D. Awardees

Faculty	Discipline	Name of the supervisor(s)	Name of the Ph.D. scholar with unique ID (Ph.D. enrollment ID)	Research Topic	Date of Notification for award of Ph.D. 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/PhD/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

Strength of our University

The primary component - Human Resources/ Teaching staff of an education system was very carefully selected by the University following the prescribed criterions, 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

Human Resource 2020-21

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 bio-molecules 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.

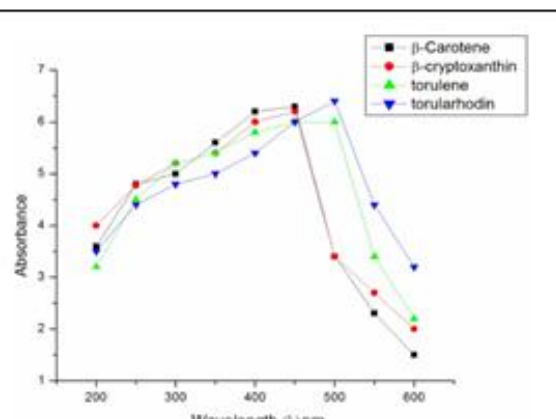
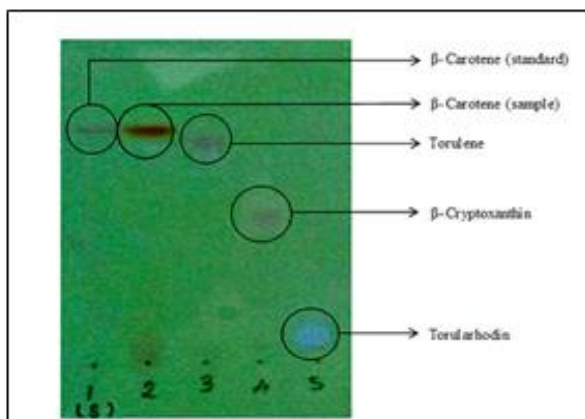
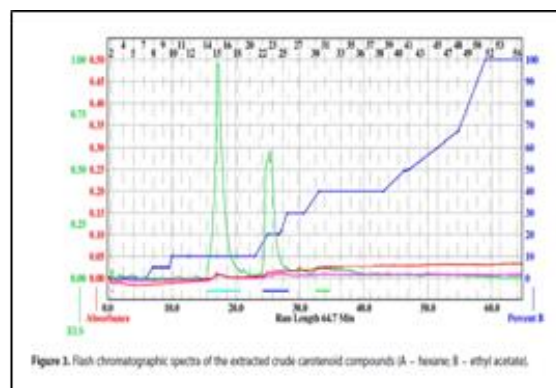
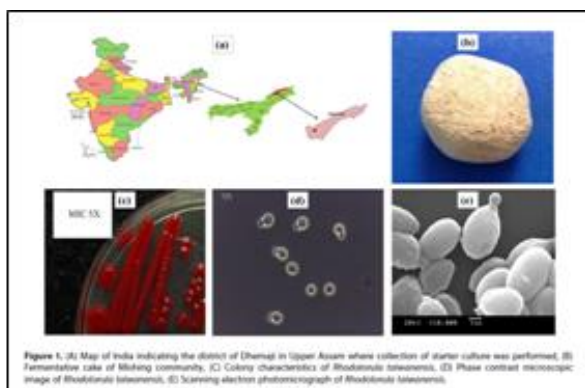
### **Introducing Annals of Multidisciplinary Research, Innovation and Technology (AMRIT)**

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 Sciences, Physiotherapy, Paramedical Science, Nursing, instrumentation and methodology,

Commerce, Business Management, Education, Humanities & Social Sciences. 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".

## 1 Characterization of $\beta$ -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  $\beta$ -carotene,  $\beta$ -cryptoxanthin, torulene and torularhodin that showed maximum absorbance ( $\lambda_{max}$ ) 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.



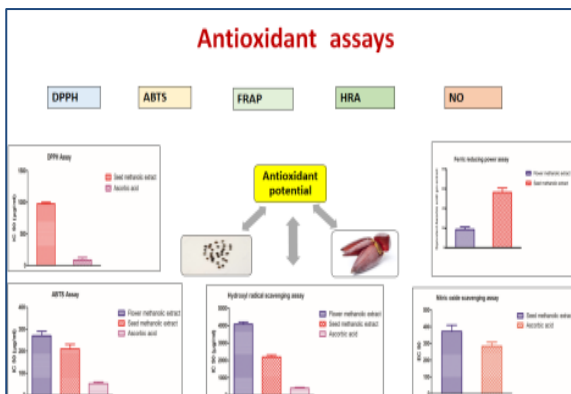
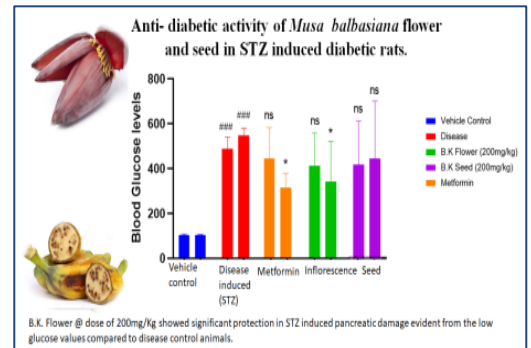
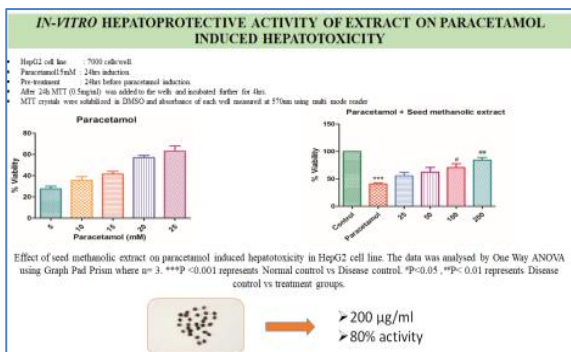
# Research Highlights

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.



3

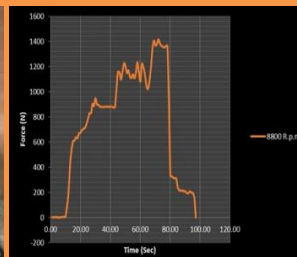
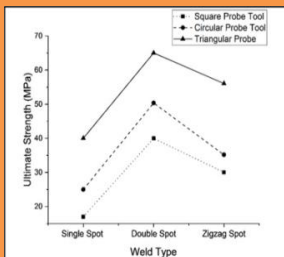
## Design and Fabrication of a portable friction stir welding machine

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

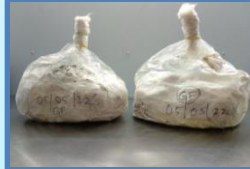
the manufactured device, three variable parameters, viz. pressure, type of tool, and joints, were considered for the FSSW experiment. The tools were circular, triangular, and square probes and the pressure was 15 Psi, 16 Psi, and 17 Psi. The joints considered for the study was single spot, double-spot, 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.





4

## Exploring Neutraceutical 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 agripreneural 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.

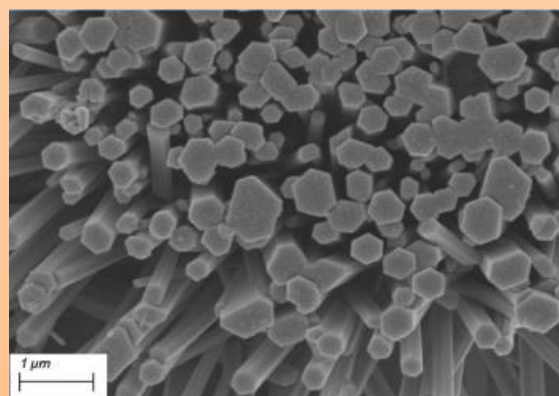
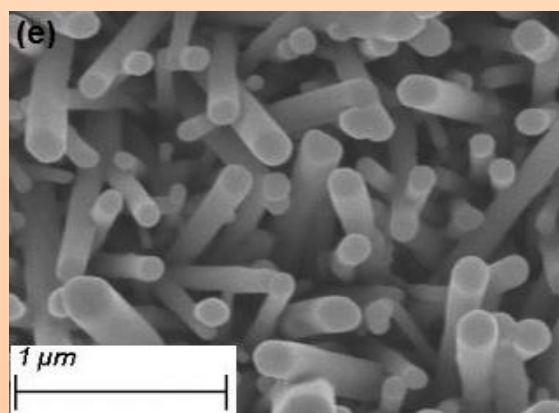
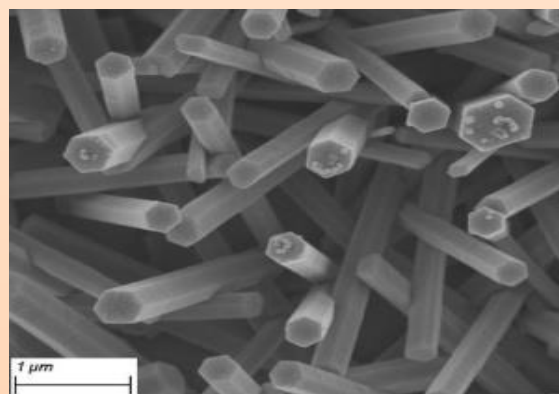


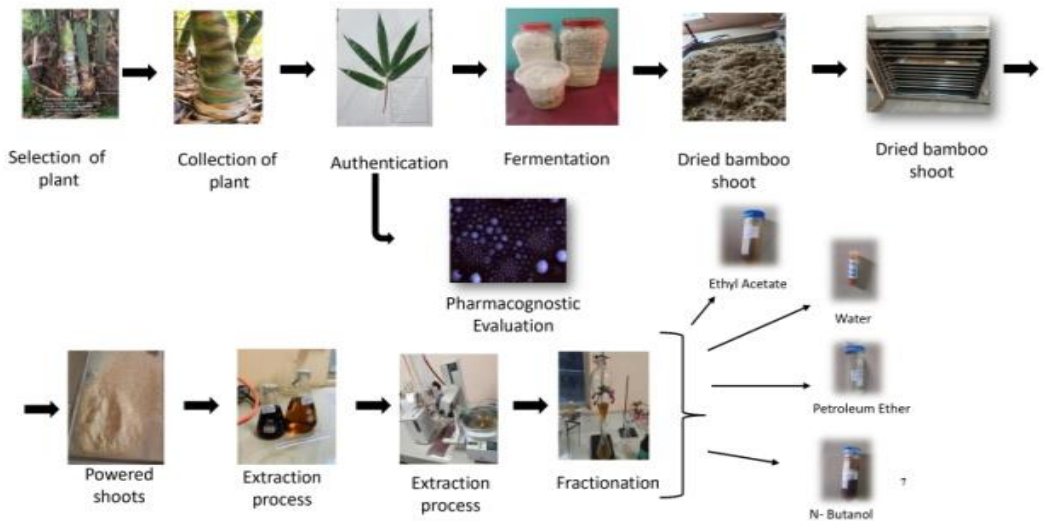
Figure: Representative picture XRD (X-Ray diffraction) showing the formation of ZnO with wurtzite structure

6

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

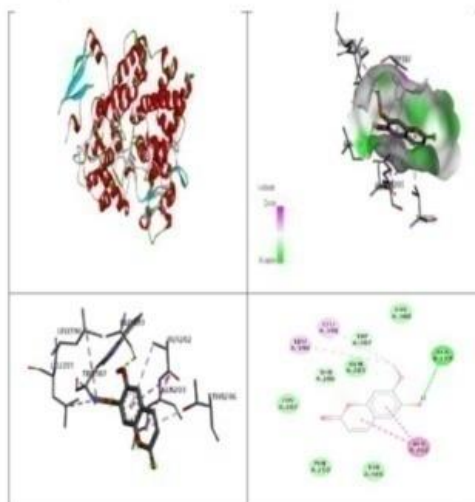
This research project was a AdtU Seed Money which evaluated the extracts of the two species for their antioxidant, antimicrobial, analgesic, and anti-inflammatory activities in-vitro and in-vivo. The shoots of *Bambusa balcooa* and *Bambusa tulda* contains higher amount of phytoconstituents like alkaloid, 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

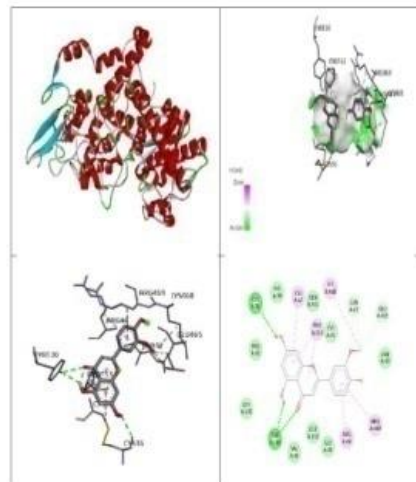


### In silico molecular docking study

1. 5F1A\_ISOSCOPOLETIN:



2. 5F1A\_CHRYSOERIOL:





# Research Outcomes

Total no. of Journal Publication	Total no. of Book chapter	Total no. of patents
<b>105</b>	<b>51</b>	<b>02</b>

## 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-Didehydroretinal 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

## Journal Publications

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

## Journal Publications

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 Ramrao 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, Ritismita 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

## Journal Publications

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	Ritimita 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

## Journal Publications

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. Sharma1,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 atocarpusaltilis 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	<a href="https://www.eurekaselect.com/article/104971">https://www.eurekaselect.com/article/104971</a>
A review on nanoparticle: types, preparation and its characterization	Chitralkha 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

## Journal Publications

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	Chitrakleha 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 Lalhmingthang,	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 $\gamma$ -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

## Journal Publications

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 , Himal Barakoti , Raja Chakraborty, Saikat Sen, Fakaruddin Ali Ahmed, Himal 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 trachyspermumkhasianum 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 ethanomedicinal 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 lahiriâ€™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 Kuppusamy, 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 Katakai , 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 medicinalplants 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

## Journal 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	Turkikh 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 Muksor, 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	<a href="mailto:sumitech.das@gmail.com">Mr. Sumit Das, Email: sumitech.das@gmail.com,</a> <a href="tel:8119857375">Phone No: 81198 57375</a>
Duracoat Tech Pvt Ltd	Manufacturing	2020-2021	<a href="mailto:drbornalisarma@gmail.com">Dr. Bornali Sarma, Email: drbornalisarma@gmail.com,</a> <a href="tel:8667691194">Phone No: 8667691194</a>

### 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 Ph.D. 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, GoI	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

### Faculty Development Programs

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

## Faculty Development Programs

### 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 by 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. They 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**  
**Theme: 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

<b>Chief Patron</b>  Dr. N. N. Dutta Hon'ble Vice-Chancellor	<b>Patron</b>  Prof. (Dr.) L. K. Nath Hon'ble Vice-Chancellor
<b>Chairperson</b>  Prof. (Dr.) Biplob Kumar Dey Faculty of Pharmaceutical Science	<b>Joint Secretary</b>  Dr. Srinimoy Basak Faculty of Pharmaceutical Science
<b>Moderator &amp; Joint Secretary</b>  Dr. Ananta Choudhury Faculty of Pharmaceutical Science	

Registration Fee: 1500/- Per Participant  
 Registration Link: <https://forms.gle/9R8aD2toDKDz27>  
 Account Holder's Name: DAWN TOWN CHARITY TRUST | Account No. 0000001014224537  
 Bank name: State Bank of India | Branch name: Litanagar  
 IFSC Code: SBIN007202 | MICR Code: 79100211

**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**

<b>(Chief Guest)</b>  Prof. (Dr.) L. K. Nath Hon'ble Vice-Chancellor (i/c) Professor, Department of Pharmaceutical Sciences Kumar Chitra School of Science and Engineering Dibrugarh University, India	<b>(Guest of Honour &amp; Keynote Speaker)</b>  Prof. (Dr.) Subires Bhattacharyya Hon'ble Vice-Chancellor University of North Bengal P.O.: NBU, Duttapara, Duttapara West Bengal, Pin -734013, India		
<b>(Keynote Speaker)</b>  Prof. (Dr.) Rupal Roy Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India	<b>(Speaker)</b>  Prof. (Dr.) Subhakarayan Pathak Tata Pharmaceutical College of Pharmacy Wardha, India	<b>(Speaker)</b>  Prof. (Dr.) Bhaskar Mazumder Department of Pharmaceutical Sciences Dibrugarh University	<b>(Speaker)</b>  Prof. (Dr.) M. A. Baredhat Asst. Chief Scientist ICMR-SECRC, Jorhat & Pibitry Assam University, Silchar, Assam

<b>(Speaker)</b>  Prof. (Dr.) Suresh Kumar Professor, Department of Pharmaceutical Sciences and Drug Research, Purulia University, Purulia-743002, Purulia	<b>(Speaker)</b>  Prof. (Dr.) Versha Partha Professor, Department of Chemistry, Osmania (P.G.) Institute of Health Sciences & Medical Sciences, Hyderabad, Datta (Dist. Nalgonda), Himachal	<b>(Speaker)</b>  Prof. (Dr.) Pranab Ghosh Professor Head of the Department, Department of Chemistry, University of North Bengal, Siliguri (Dist. Jalpaiguri), West Bengal
<b>(Speaker)</b>  Prof. (Dr.) A. B. Komumakkara Professor, Indian Institute of Technology (IIT), Guwahati, Assam	<b>(Speaker)</b>  Prof. (Dr.) Resha Madan Professor, Chitkara College of Pharmacy, Chitkara University, Punjab	<b>(Speaker)</b>  Prof. (Dr.) Sangeeta V. Chemturi Director Scientific Research, Lakeland Pharmaceutical, Cambridge, Massachusetts, U.S.A
<b>(Speaker)</b>  Prof. (Dr.) Rishi Kumar Sahu Associate Professor, Department of Pharmaceutical Sciences, Assam University, Silchar, Assam	<b>(Speaker)</b>  Prof. (Dr.) Smita Biswas Professor, Department of Pharmaceutical Sciences, HBT & Institute of Pharmaceutical Sciences, Assam University, Silchar, Assam	<b>(Speaker)</b>  Prof. (Dr.) Jagannath Rout Associate Professor, Department of Pharmaceutical Sciences, Assam University, Silchar, Assam

Registration Fee: 1500/- 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 Sciences. 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.

# AdtU's Meet and Exposure Parley

## 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. Dhrubajyoti 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

Webinar

## 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.

## Virtual Scientific Conclave-2021

*A platform for comprehensive discussion on challenges and prospects in the field of science and technology*

**27-01-2021 to 29-01-2021**

Organized by

**Faculty of Pharmaceutical Science,  
Assam down town University (AdtU),  
Guwahati**

In association with

**Defence Research and Development  
Organisation (DRDO), Tezpur**

## 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>**

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

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

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

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

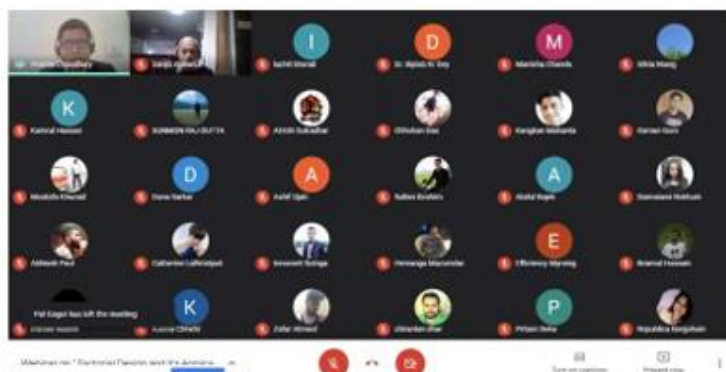
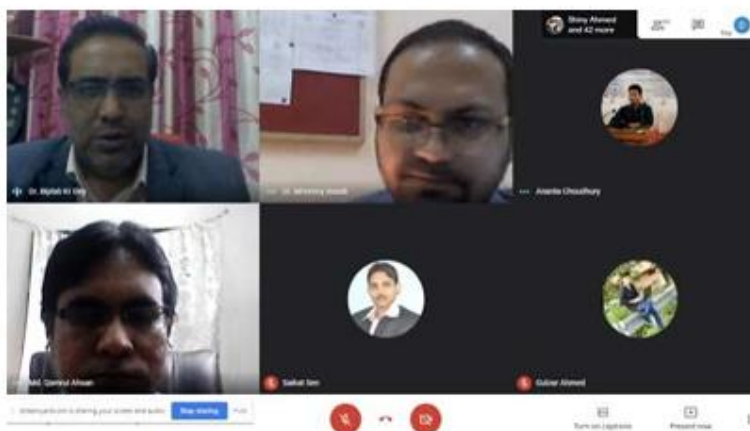


# AdtU's Meet and Exposure Parley

## Online- Webinar

### 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 pm with the welcome speech by Prof. (Dr.) Biplab Kumar Dey, Dean, Faculty of Pharmaceutical Science, Assam down town 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 down town 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

Virtual- Webinar

## 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 organized an International Webinar on 29/05/2021. Hon'ble 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 convener 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.

Organized by:  
Faculty of Pharmaceutical Science  
Assam down town University

**International Webinar On**  
**"Instrument Qualification : An approach towards the life cycle"**

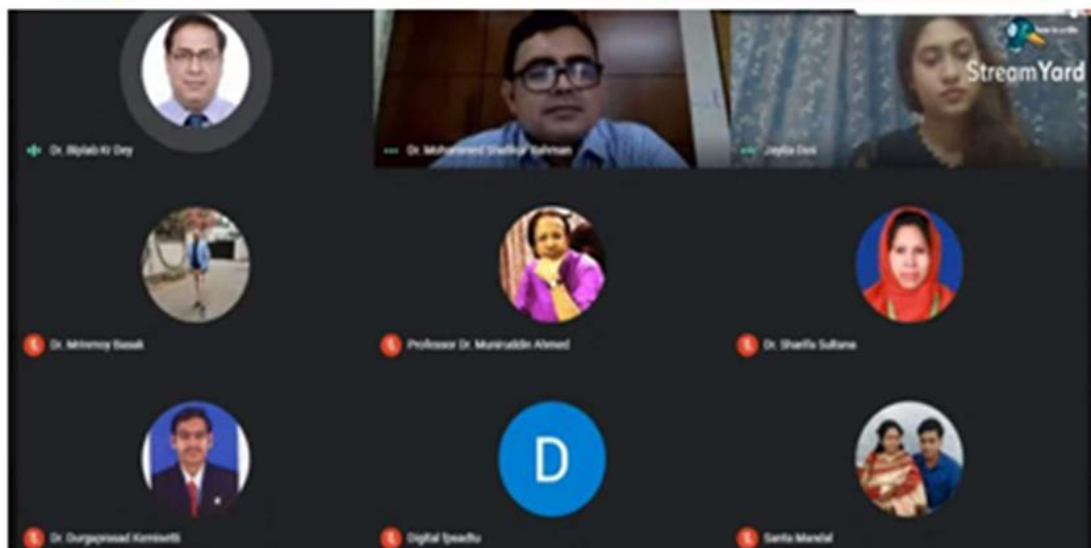
**SPEAKER**  
  
**Dr. Mohammed Shafikur Rahman**  
Assistant Professor  
Daffodil International University  
Dhaka, Bangladesh

**CHAIRPERSON**  
  
**Prof. (Dr.) Biplab Kumar Dey**  
Dean,  
Faculty of Pharmaceutical Science  
Assam down town University, Guwahati

**CONVENOR**  
  
**Dr. Mrinmoy Basak**  
Dean I/C,  
International Affairs  
Faculty of Pharmaceutical Science  
Assam down town University, Guwahati

29th May, 2021  
02:30 PM IST to 03:00 PM IST  
02:30 PM GMT to 03:00 PM GMT  
02:30 PM EDT to 03:00 PM EDT

PLATFORM: Google Meet  
LINK: <https://meet.google.com/pmg-ssqz>



# AdtU's Meet and Exposure Parley

## Virtual- Webinar

### “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 more than 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-FDP on “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<sup>nd</sup> -28<sup>th</sup> July, 2020. During the event seven 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) on Steps towards Research: With the prospective of Biological Science, Dr. N.C. Talukdar on what it takes in preparation of successful research proposal for winning 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.



**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**



<p><b>Chief Patron</b></p>  <p><b>Dr. Narendra Nath Dutta</b> Honourable Chancellor Assam down town University</p>	<b>SPEAKERS</b>	
<p><b>Patron</b></p>  <p><b>Prof. (Dr.) Anandjit Choudhury</b> Honourable Vice-Chancellor Assam down town University</p>	 <p><b>Dr. B G Unni</b> Former Chief Scientist, CSIR-NEST, Jorhat Research advisor, AdTU Director-Academics &amp; Research, CEMSI girls &amp; boys College (Affiliated to University of Calcutta)</p>	<p><b>Topic</b></p> <p><i><b>Fundamentals of Research Methodology</b></i></p> <p>22nd July, 2020 11:00 AM to 12:00 NOON</p>
<p><b>Chairperson</b></p>  <p><b>Dr. Rajeev Sarma</b> Dean, Faculty of Science, Assam down town University</p>	 <p><b>Dr. Bijoy Neog</b> Professor, Department of Life Sciences, Dibrugarh University, Dibrugarh, Assam</p>	<p><b>Topic</b></p> <p><i><b>Biodiversity information and conservation- Biological Research</b></i></p> <p>23rd July, 2020 11:00 AM to 12:00 NOON</p>
<p><b>Convener</b></p>  <p><b>Dr. Manash Pratim Barman</b> Associate Dean, Faculty of Science, Assam down town University</p>	 <p><b>Dr. Purabi Deka Bose</b> Associate Professor, Department of MBST, Cotton University, Guwahati, Assam</p>	<p><b>Topic</b></p> <p><i><b>Steps towards Research: With the Prospective of Biological Science</b></i></p> <p>24th July, 2020 11:00 AM to 12:00 NOON</p>
<p><b>Co-Convener</b></p>  <p><b>Dr. Nayan Talukdar</b> Asst. Professor, Faculty of Science, Assam down town University</p>	 <p><b>Dr. Jiten Hazarika</b> Professor &amp; HoD, Department of Statistics Dibrugarh University, Dibrugarh, Assam</p>	<p><b>Topic</b></p> <p><i><b>Methods and tools for data Collection</b></i></p> <p>25th July, 2020 11:00 AM to 12:00 NOON</p>
<p><b>Dr. Sujan Sinha</b> Asst. Professor, Faculty of Science, Assam down town University</p>	 <p><b>Dr. Manash Pratim Barman</b> Associate Professor, Department of Statistics, Dibrugarh University, Dibrugarh, Assam</p>	<p><b>Topic</b></p> <p><i><b>Methods and tools for data analysis.</b></i></p> <p>26th July, 2020 11:00 AM to 12:00 NOON</p>
<p><b>Dr. Anjan Kumar Sarma</b> Asst. Professor, Faculty of Science, Assam down town University</p>	 <p><b>Dr. N. C. Talukdar</b> Former Director, Institute of Advanced Studies in Science and Technology (IASST), Chief Research Advisor, AdTU Guwahati, Assam</p>	<p><b>Topic</b></p> <p><i><b>What it takes in preparation of a successful research proposal for winning financial support and for publication of research in quality journal</b></i></p> <p>27th July, 2020 11:00 AM to 12:00 NOON</p>
	 <p><b>Dr. Ashis K. Mukherjee</b> Former Dean, Research and Development, Tezpur University &amp; Professor, Department of Molecular Biology and Biotechnology, Tezpur University, Tezpur, Assam</p>	<p><b>Topic</b></p> <p><i><b>Research and Project Management: Keys to Success</b></i></p> <p>28th July, 2020 11:00 AM to 12:00 NOON</p>

### **Dry Needling with Pain Management**

On May 2, 2021, the Faculty of Paramedical Sciences (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 Sciences 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 participate 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 19<sup>th</sup> 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 Sciences, 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 resent 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 19<sup>th</sup> 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.



# Outreach Activities

## Collaborations

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

## Student's Societal Engagement

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...

### Student's Societal Engagement

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 Banglore, 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

Faculty Members

Faculty of Studies



# 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. Dutta, Members -Prof. Amarjyoti Choudhury (From 1<sup>st</sup> April 2020 to Aug 31, 2020), Prof. N. C. Talukdar, (Sept. 1 2020 onward), Middle Row: From left Members - Ar. Biswa Dutta; Ms. Mayurakshi Dutta; Dr. B. K. Gogoi; Bottom row- From left Members- Dr. Nandita Chowdhuri; Dr. Debashis Mitra; and Ms. Gariasi Dutta.

# Governing Body and Finance Committee

## 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. Pranveer Singh, Pro Vice Chancellor	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. Joutishman Dutta, Managing Trustee	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. Biplab 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. Bholu Chourasia, HoD, Hospitality and Tourism Management	Member
22.	Prof. Dharmeswar Das, Chairman Research	Special Invitee
23.	Dr. Ruhit Jyoti Konwar, 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	Special Invitee
27.	Dr. Debojit Bhattacharya, Dy. Controller of Examination	Special Invitee
28.	Mr. Bhaba jyoti Saikia, OSD to Vice Chancellor	Special Invitee
29.	Mr. Ashim Barman, Additional Registrar (Administration)	Member Secretary

# Budget for the Academic Year

(In Crores)

Part I - Income & Expenditure Statement				
Sl. No.	Particulars	Code No.	Amount	Allocation %
<b>I</b>	<b>Receipts</b>			
	University Programme Fees (Sch - A)		50.00	90.90
	Hostel Fees (340 x 35,000)		1.20	2.19
	Canteen Receipts		0.10	0.18
	Consultancy (Non Skill Works)		2.00	3.64
	Other Receipts (Sch - B)		1.70	3.09
	<b>Total - Receipts -A</b>	-	<b>55.00</b>	<b>100.00</b>
<b>II</b>	<b>Expenditure (Revenue Expenses)</b>			%
a	Salary, Allowance and staff training exp. (Sch- C)	EXP-1	17.20	31.27
b	Teaching & Learning - including Academic Prizes (Sch - D)	EXP-2	5.00	9.09
c	Marketing Expenses (Sch - E)	EXP-3	3.60	6.54
d	Placement Expenses (Sch - F)	EXP-4	0.45	0.81
<b>e</b>	<b>Hostel &amp; Canteen Expenses</b>	<b>EXP-5</b>	<b>0.70</b>	<b>1.27</b>
	1. Grocery & Others	EXP-5a	0.60	
	2. Hostel Rent	EXP-5b	0.10	
<b>f</b>	<b>Power &amp; Fuel</b>	EXP-6	0.65	1.18
	1. Electricity Charges		0.45	
	2. Fuel Charges		0.20	
<b>g</b>	<b>Repair &amp; Maintenance</b>	EXP-7	<b>0.50</b>	<b>0.90</b>
	1. Repairs & Maintenance - Building & Plumbing	EXP-7a	0.20	
	2. Repairs & Maintenance - Vehicles	EXP-7b	0.15	
	3. Repairs & Maintenance - Electricals	EXP-7c	0.05	
	4. Repairs & Maintenance - Equipments	EXP-7d	0.05	
	5. Repairs & Maintenance - Others	EXP-7e	0.05	
h	Printing & Stationery	EXP-8	0.10	0.18
<b>i</b>	<b>Research Development</b>	<b>EXP-9</b>	<b>0.90</b>	<b>1.64</b>
	1. Seminar & Workshop	EXP-9a	0.15	
	2. Laboratory Expenses	EXP-9b	0.10	
	3. Central Instrumentation Facilities (CIF) & Animal house	EXP-9c	0.10	
	4. Research work & Innovative (Startup)	EXP-9d	0.15	
	5. Sponsorship Projects	EXP-9e	0.15	
	6. Research Fellowship Expenses	EXP-9f	0.10	
	7. Misc. Research Expenses (Incl Seed Money Rs.4,00,000/-)	EXP-9g	0.10	
	8. Incubation Expenses	EXP-9h	0.05	
j	Internet & Telephone Expenses		0.20	0.36
k	Library Journals		0.10	0.18
l	Other Misc. Expenses (Sch - G)		1.00	1.81
	<b>Total Expenditure - B</b>		<b>30.38</b>	<b>55.23</b>
<b>III - Finance Cost - C</b>				
a	Interest on secured loan - (Sch H)	FC-1	4.40	8.00
<b>IV Re-Payment of Fund:-</b>			4.50	8.18
a	Refund Trust Fund		1.50	
b	Re-Payment of Principal Amount (CC, Vehicle & TL)		3.00	
<b>Part III - Capital Expenses</b>				
<b>V Purchase of Assets</b>				
a	System & IT Services	PUR-1	0.50	0.90
b	Software	PUR-2	0.05	0.09
c	Laboratory Equipments	PUR-3	0.10	0.19
d	Central Instrumentation Facilities (CIF)	PUR-4	0.25	0.45
<b>e</b>	<b>Center of Excellence (CoE)</b>	<b>PUR-5</b>	<b>1.00</b>	<b>1.81</b>
	1. Research Equipments, (Robot, etc.)		0.50	
	2. Manikin's		0.20	
	3. Other Tools & Lab., Equipments		0.30	
f	Furniture & Fixures	PUR-6	0.05	0.09
g	Electrical Items & Fittings	PUR-7	0.10	0.18
h	Library Books	PUR-8	0.25	0.45
i	Motor Vehicles (1 No Tata Starbus)	PUR-9	0.30	0.55
j	Gym & Sports Materials	PUR-10	0.05	0.09
	Others Misc. Assets	PUR-11	0.05	0.09
	<b>Total Assets cost - D</b>		<b>2.69</b>	<b>4.89</b>
<b>VI Civil Construction</b>				
a	Construction Work (Net off)	CAP-1	12.54	22.80
	Add Contingency		0.50	0.90
	<b>Total</b>		<b>55.00</b>	<b>100.00</b>



# Finance Audit Report

APURBA BANERJEE & CO.  
CHARTERED ACCOUNTANTS

NESSA MIANSIONG (FLOOR)  
Address: Road 17/18p, Udayar House  
Gowdhatti - 781007  
Phone: 9806012459/9236640914034  
Email: apurba\_51@yahoo.com

## INDEPENDENT AUDITOR'S REPORT

We have audited the accompanying financial statements of Doves Trust Charitable Trust, which comprise the Balance Sheet as at 31<sup>st</sup> March, 2021 and statement of Income and Expenditure for the year then ended and Notes on Accounts.

### Management's Responsibility For The Financial Statements

Management is responsible for preparation of these financial statements that give a true and fair view of the financial position, financial performance of the Trust in accordance with the Accounting Standards issued by the Institute of Chartered Accountants of India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

### Auditor's Responsibility:

1. Our responsibility is to express an opinion on these financial statements based on our audit. We have conducted our audit in accordance with the standards on Auditing issued by Institute of Chartered Accountants of India. These standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.
2. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Financial Statements. The procedures selected depend on the auditor's judgment, including the assessment of risks of material misstatement of the financial statements, the auditor considers internal control relevant to the Trust's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Trust's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the Financial Statements.
3. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### Opinion

In our opinion and to the best of our information and according to the explanation given to us, the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India.



- a) In case of the Balance Sheet, of the state of affairs of the Trust as at 31<sup>st</sup> March, 2021. And
- b) In case of statement of Income and Expenditure, the excess of Income over Expenditure for the year ended on that date.

Place: Gowdhatti  
Date: 30-09-2021

For M/s. Apurba Banerjee & Co.  
Chartered Accountants  
Firm Registration No.: 314398

(Apurba Banerjee),  
Partner

Membership Number: 051628  
UDIN : 21051628AAAAAK9532



## 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 committee 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 Initiatives: 2020-21

## 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 <sup>th</sup> June, 2021	110
Faculty & IQAC jointly organized Virtual Faculty Development Programme on "Statistical Methods in Biological Sciences" (In collaboration with Faculty of Science)	29 <sup>th</sup> June to 5 <sup>th</sup> July, 2021	146
Webinar on " Sustainability-adjunct to business continuity ( A perspective for educational Institute) (In collaboration with Faculty of Humanities & Social Sciences)	7 <sup>th</sup> January, 2021	80
Webinar on " Excellence in Higher Education System: Role of Rankings & Benchmarking"	21 <sup>st</sup> April, 2021	90
4th Management Review Meeting on Implementation of ISO 9001:2015 QMS	11 <sup>th</sup> Dec, 2020	12
Quality Management System Certification Surveillance Audit 2	17 <sup>th</sup> Dec to 19 <sup>th</sup> Dec, 2020	268

# Policy Initiatives: 2020-21

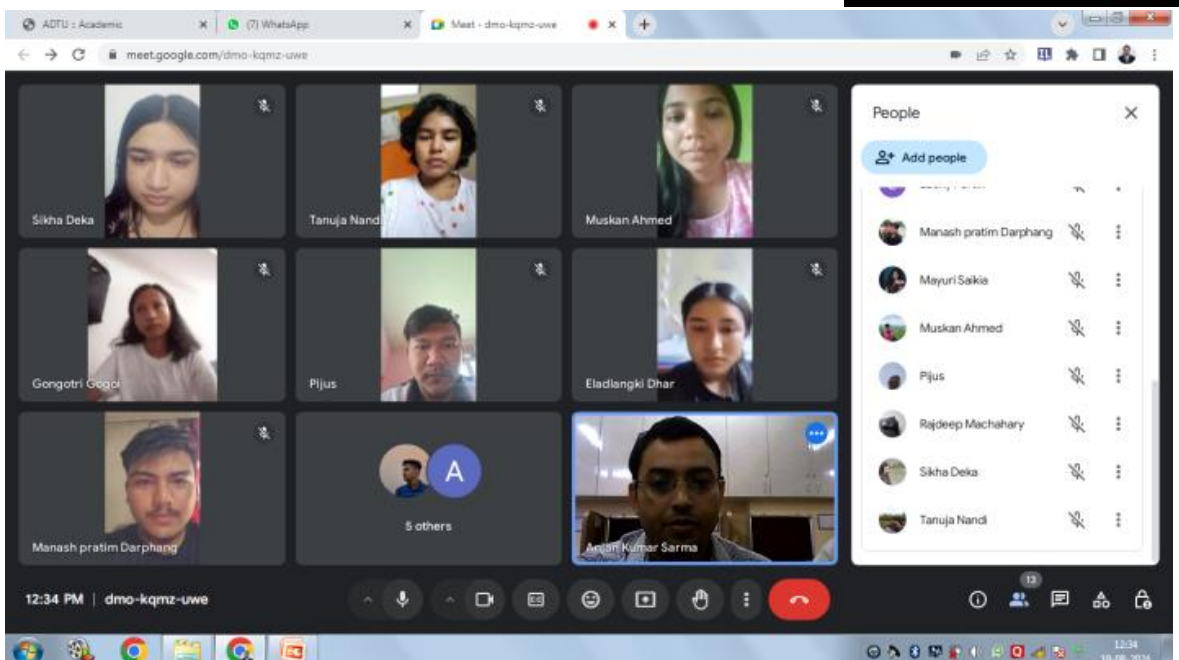
## Capability enhancement and development schemes those are newly introduce

Name of the capability enhancement scheme	Year of implementation
<b>Soft Skills Development</b>	
Workshop on "The Ultimate Guide to Interview Success"	2020-21
Wardrobe Wisdom: Mastering Business Dress & Behaviour Etiquette for Success	2020-21
<b>Language and Communication Skills Development</b>	
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
<b>Yoga and Wellness</b>	
Yoga & Nutrition: The Essentials for Holistic Health	2020-21
Meditation for better Mental Health	2020-21
<b>Analytical Skill Development</b>	
Unlocking the Power of Microsoft Office: Training Workshop	2020-21
<b>Human Value Development</b>	
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
<b>Personality and Professional Development</b>	
The Art of Influence: Communication and Personality Dynamics	2020-21
<b>Employability Skills Development</b>	
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.

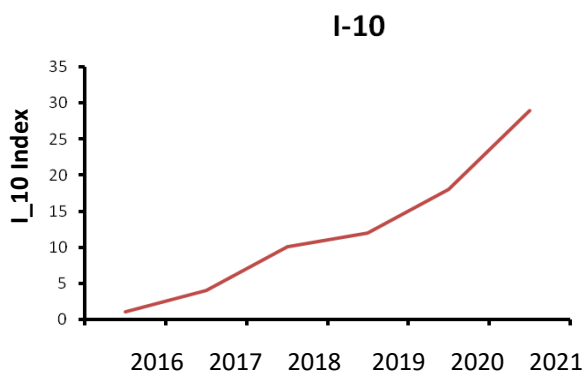
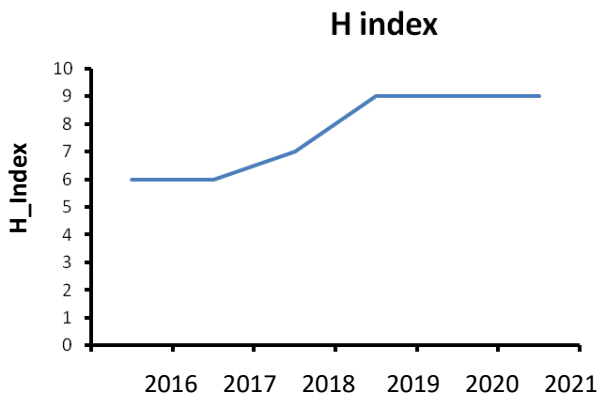
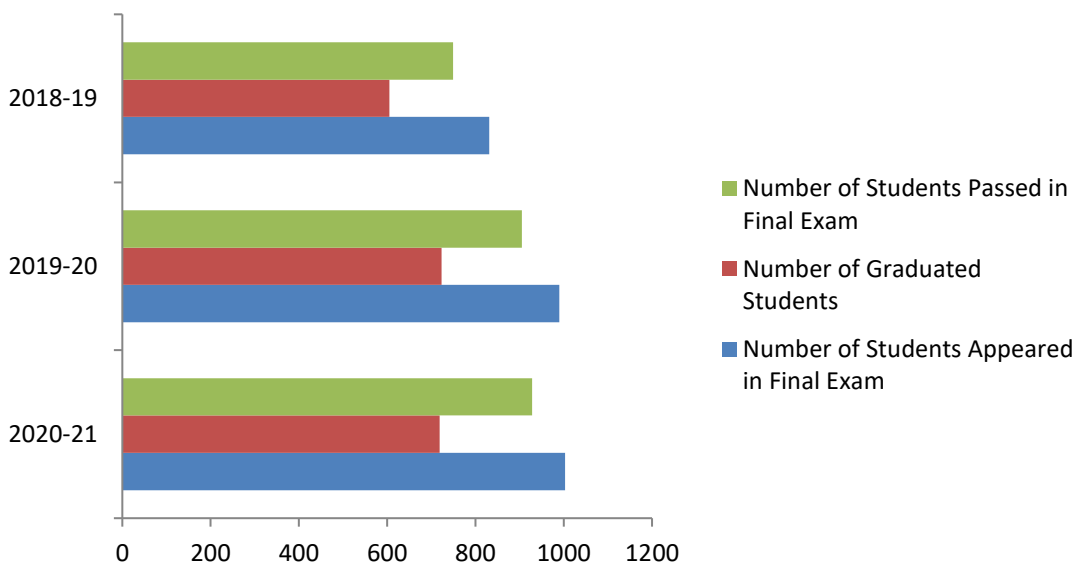
**Example of how teachers conducted classes (Panel below) and the students (Side panel) took classes online using laptop and mobile, respectively during COVID 19 lockdown of 2020.**



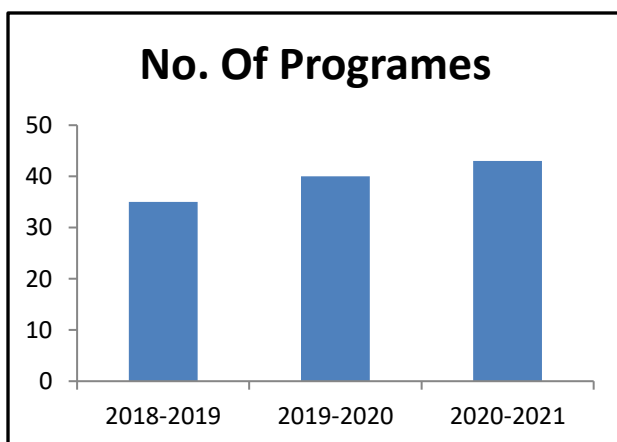
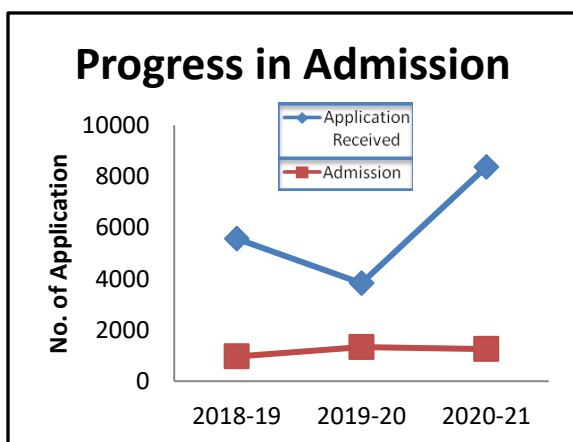


# Progress Summary- Academics/ Research

## 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



## 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.

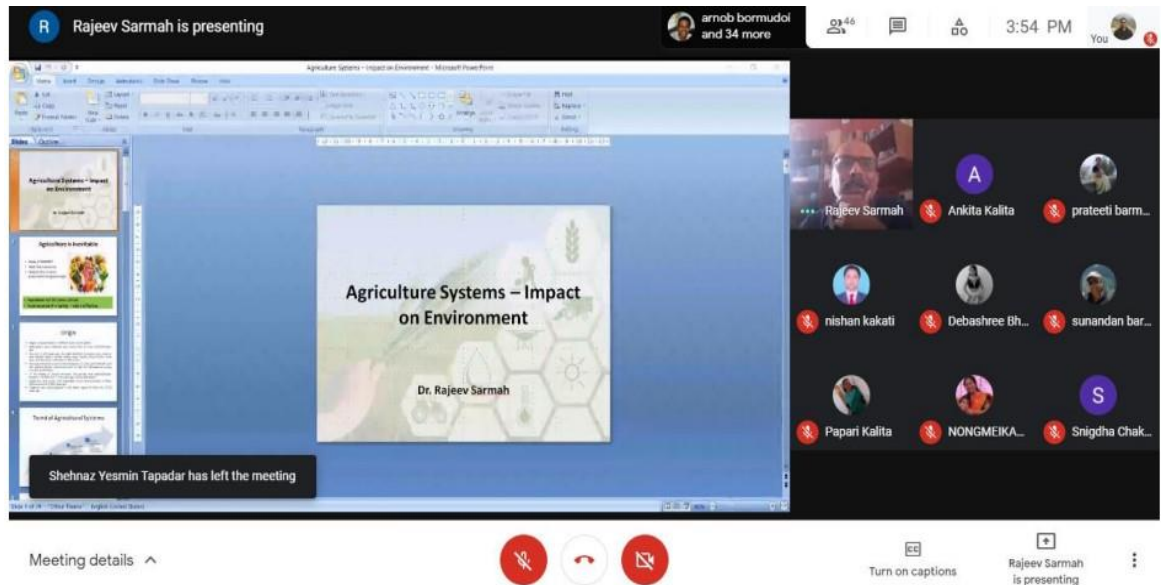




# Celebrations at AdtU

## 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”

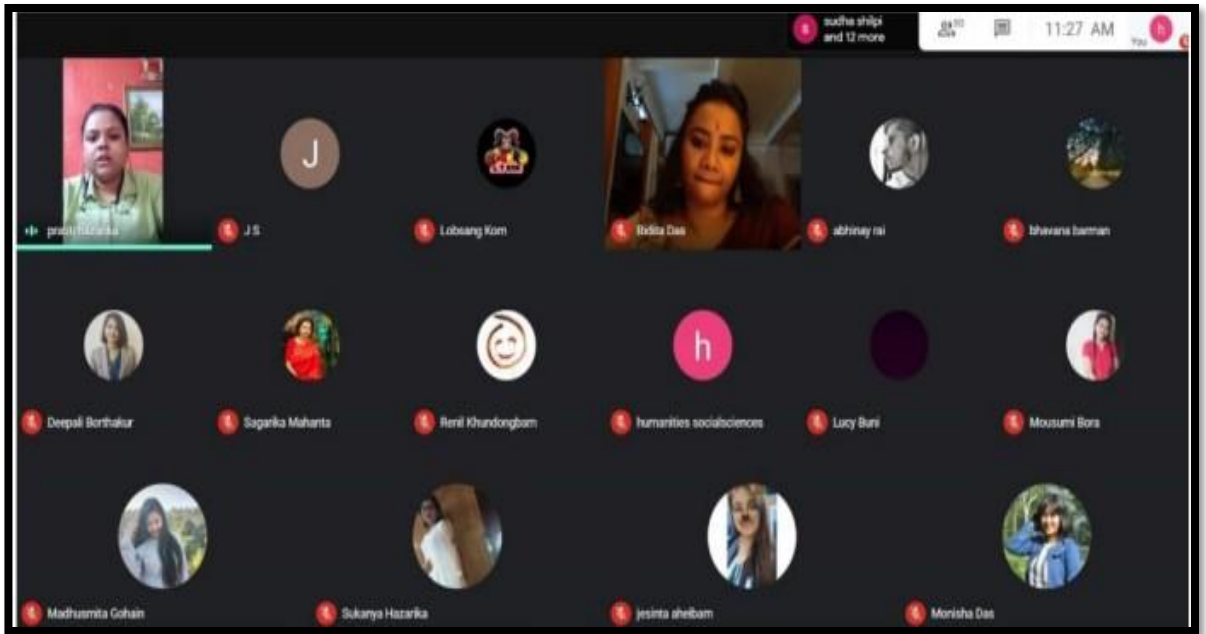
Assam down town University marked World Health Day on April 7, 2021, which is celebrated annually to honor the founding of the World Health Organization. This global awareness day is recognized by governments and non-governmental organizations around the world, focusing on public health issues. The theme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



# Celebrations at AdtU

## 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*

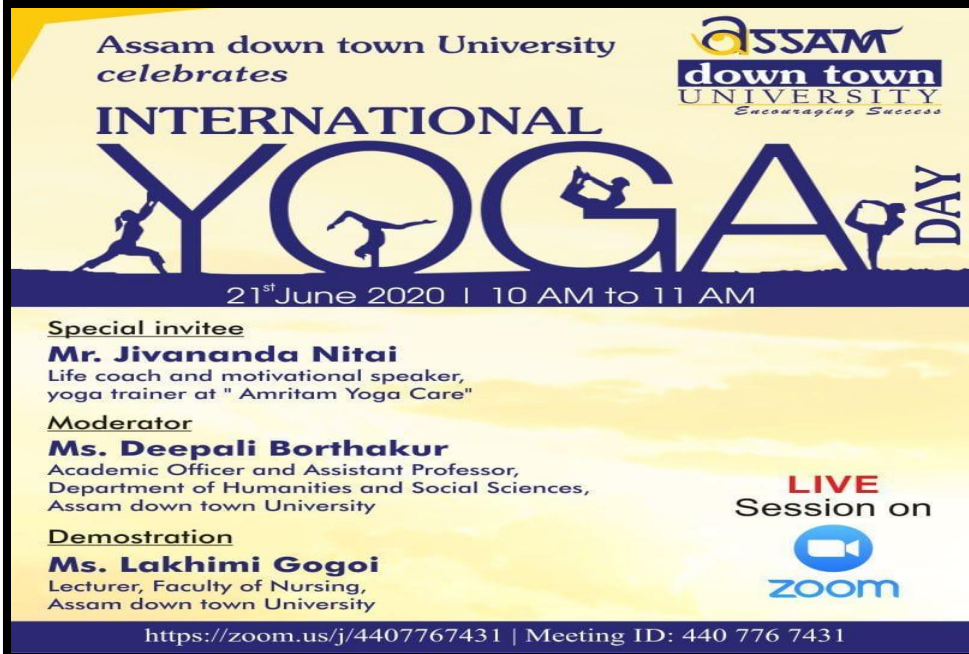
## AdtU Observed “World AIDS Day”

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.



## 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**

21<sup>st</sup> 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





## 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.

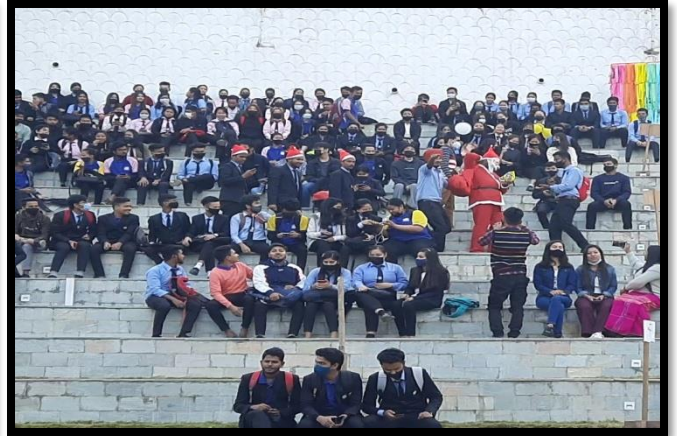




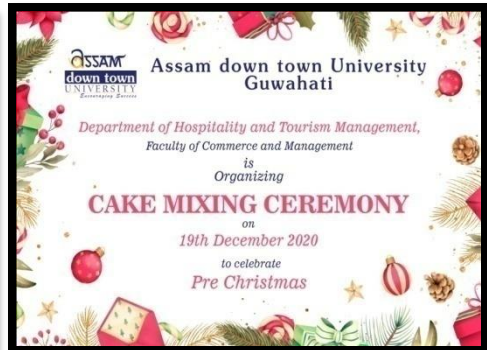
# Glimpses of Campus Life

## 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.



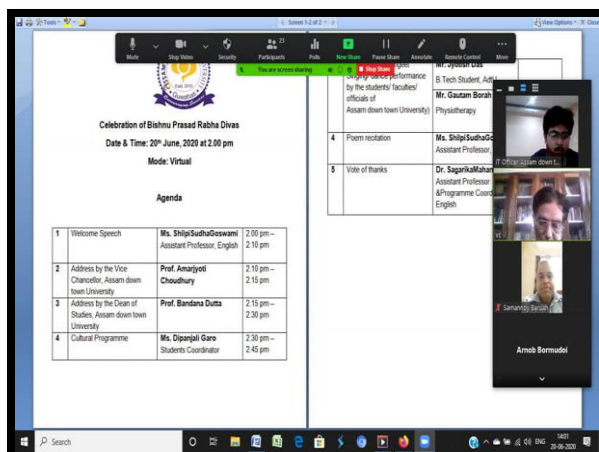
# Glimpses of Campus Life

## Commemorations of Prominent Personalities

1. Assam down town University commemorated the 69th Silpi Divas on January 17 to honor Rupkumar 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**  
*Learning Service*

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](mailto:bormudoi@gmail.com)  
on or before 30th September. For any queries- 70022 69665

First three winners  
Prize Money Trophy Certificate

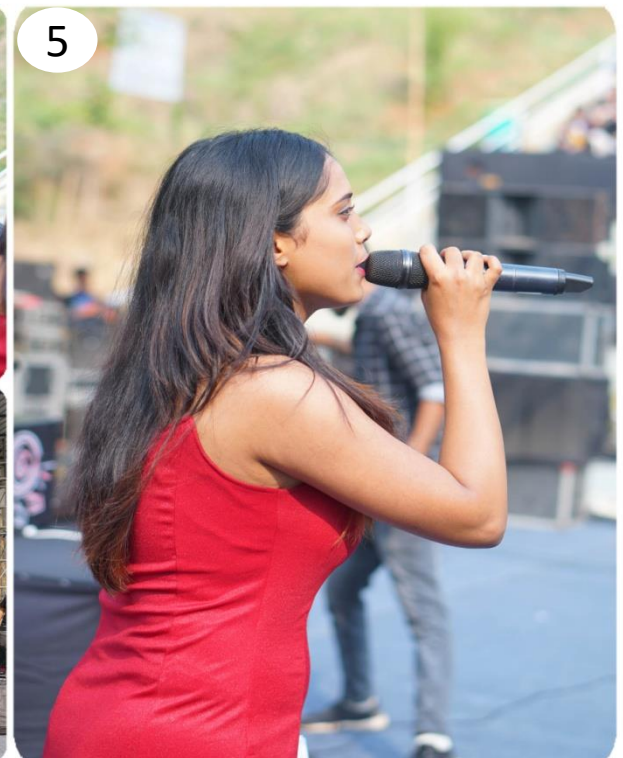
The advertisement features a cartoon character painting a portrait of Mahatma Gandhi on an easel. There are also icons for a starburst, a trophy, and a certificate.





# 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



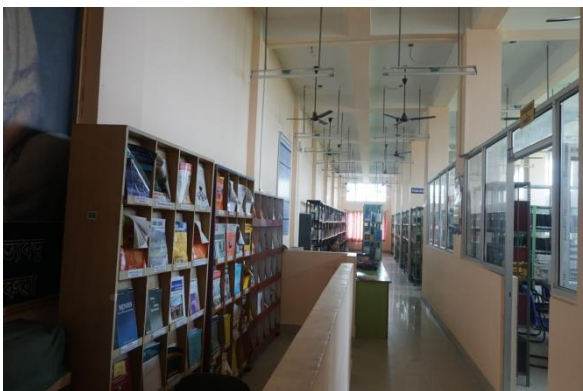
Number of Awards / Medals Received from state/regional/national events

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



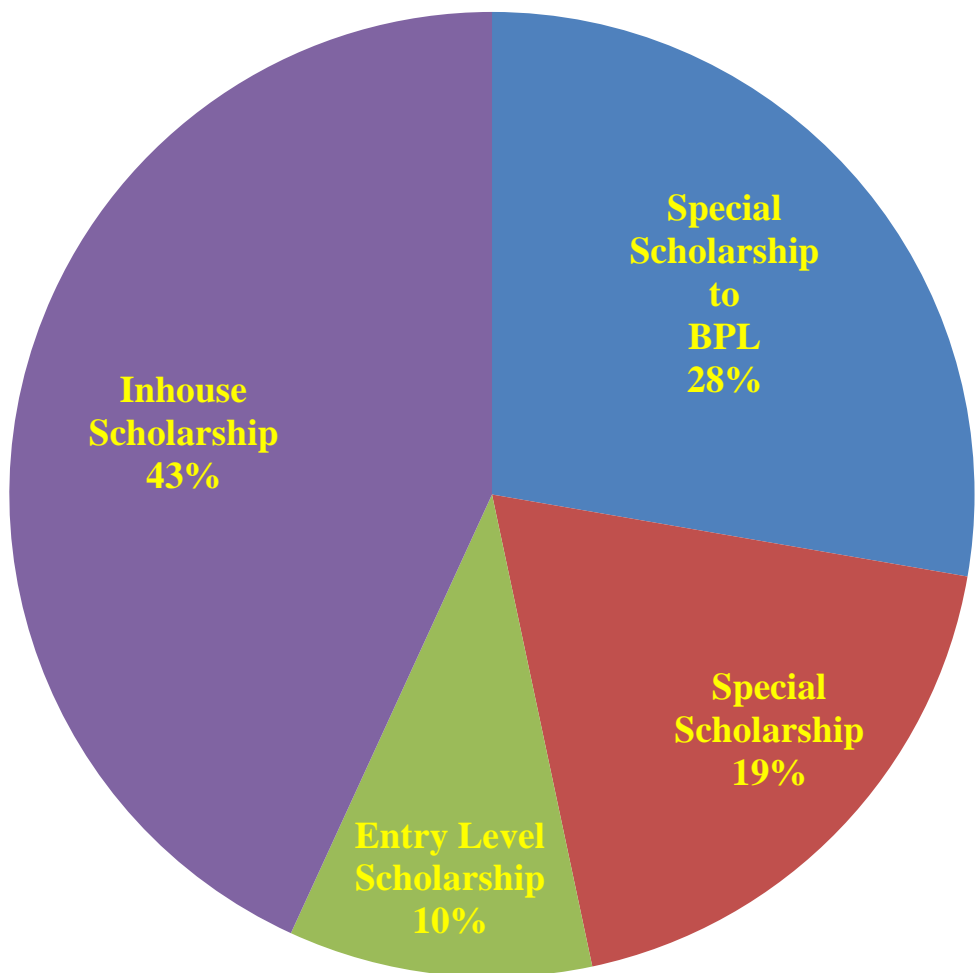
**Table: Size of few salient facilities inside AdtU campus**

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.

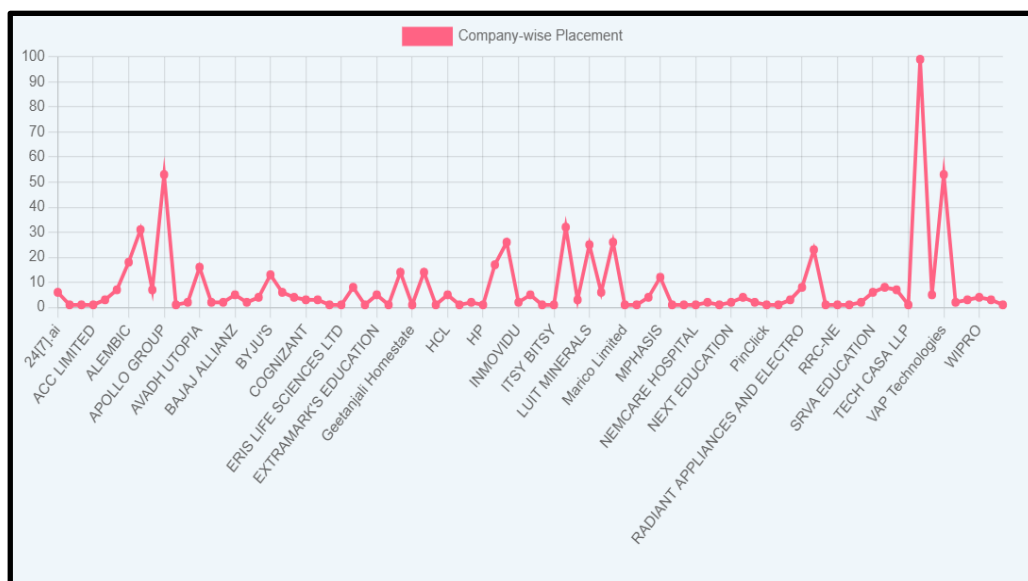


## Support of Placement Cell of AdtU in getting job

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 <sup>th</sup> 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**

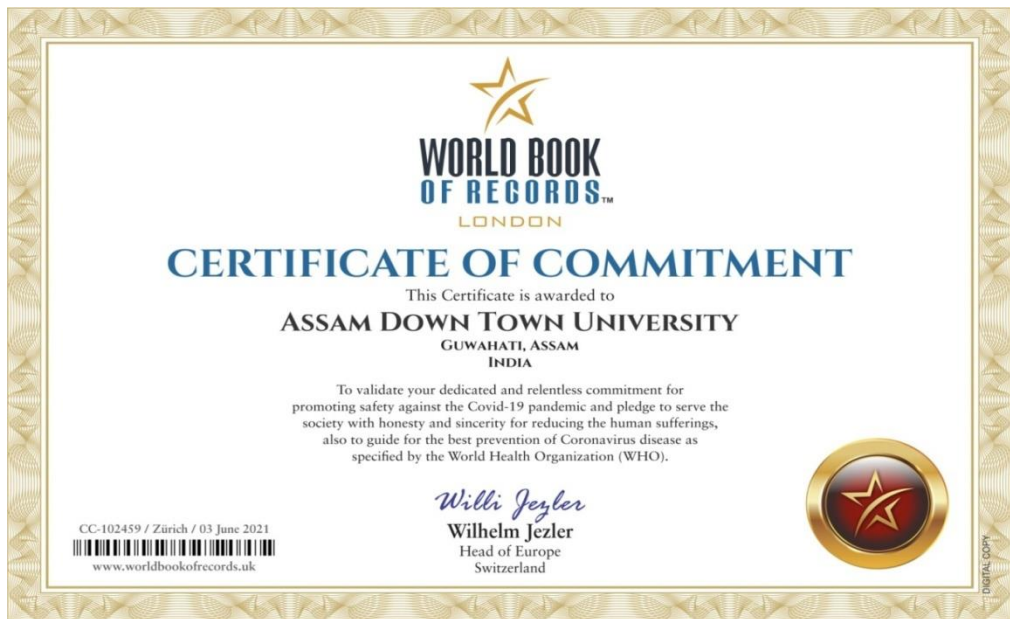
The goal of equitable teaching is to provide needs-based support to ensure equitable learning opportunities. The objective of an inclusive classroom is for all students to be valued in the classroom for their diverse abilities, experiences and perspectives. This is accomplished through methods, strategies 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 Incribed

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







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



Where there is Rural Wellbeing  
there is Universal Prosperity

*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

<b>Name of full time teachers receiving awards from state level, national level, international level</b>	<b>Year of Award</b>	<b>PAN</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or Government recognised bodies</b>
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

<b>Name of the award/ medal</b>	<b>Team / Individual</b>	<b>Inter-university / state / National / International</b>	<b>Name of the event</b>	<b>Name of the student</b>
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

