

ANNUAL REPORT 2022-23



ASSAM
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UNIVERSITY

Assam down town University

GLIMPSES OF AdtU's RESEARCH

Contents lists available at ScienceDirect

Journal of Ethnopharmacology

journal homepage: www.elsevier.com/locate/jethpharm

Kaempferol 3-O-rutinoside from *Antidesma acidum* Retz. Stimulates glucose uptake through SIRT1 induction followed by GLUT4 translocation in skeletal muscle L6 cells

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Impact Factor: 5.4

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Correspondence

INTERNATIONAL JOURNAL OF SURGERY

Recent update on XBB.1.5 emerging novel mutation of COVID-19

Ruhul Amin, PhD^a, Prosanta Pal, PhD^b, Kuldeep Dhama, PhD^c, Talha B. Emran, PhD^{d,e,f}

Impact Factor: 15.3

Dear Editor,
 The emergence of the XBB family of variations during the last few months has piqued the interest of virologists since this family has more mutations than any other to circumvent immunity^[1]. A mutation in the XBB.1.5 variant may improve the virus's ability to connect to cells and spread to new hosts.
 According to estimates from the Centers for Disease Control and Prevention, USA, the XBB.1.5 subvariant currently accounts for roughly 28% of US coronavirus disease 2019 cases, and its frequency is growing worldwide.^[2] It seems to have quickly outcompeted a variety of other immunity-evading strains predicted to circulate together this winter in the Northeastern United States.
 one case reported from each of Karnataka, Telangana,

HIGHLIGHTS

- XBB.1.5 variant may improve the virus's ability to connect to cells.
- The XBB.1.5 sublineage was discovered in the United States.
- The XBB.1.5, the strain detected in eight patients in India.
- The subvariant has an uncommon mutation that might increase its infectiousness.



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Review

Transient Receptor Potential Vanilloid (TRPV4) channel inhibition: A novel promising approach for the treatment of lung diseases

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Impact Factor: 5.8

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Open Access Technical Note

Soil Moisture Change Detection with Sentinel-1 SAR Image for Slow Onsetting Disasters: An Investigative Study Using Index Based Method

by Arnob Bormudoi^{1,2,*}, Masahiko Nagai¹, Vaibhav Katiyar¹, Dorj Ichikawa¹ and Tsuyoshi Eguchi¹

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Abstract

: Understanding physical processes in nature, including the occurrence of slow-onset natural disasters such as droughts and landslides, requires knowledge of the change in soil moisture between two points in time. The study was conducted on a relatively bare soil, and the change in soil moisture was examined with an index called Normalized radar Backscatter soil Moisture Index (NBMI) using Sentinel-1 satellite data. Along with soil moisture measured with a probe on the ground, a study of correlation with satellite imagery was conducted using a Multiple Linear Regression (MLR) model. Furthermore, the Dubois model was used to predict soil moisture. Results have shown that NBMI on a logarithmic scale provides a good representation of soil moisture change with R²–86%. The

Impact Factor: 3.2



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ASSAM
down town
UNIVERSITY

NAAC Accredited & UGC 12 (B) Status Holder

Permission Granted Vide The Assam Act. No. VIII OF 2010, Gazette No. LGL.9/2010/11

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Charity Trust

Chancellor's Message



The bygone year's growth trajectory reflects yet another year of diligence and devotion of AdtU fraternity in discharging their duties and responsibilities. I convey my sincere appreciation to the students, faculty, administrators, finance officer and field workers. With official declaration of NEP 2020, the education landscape of the country is beginning to witness a transformative revolution in the academics. To harness the promise enshrined in NEP-2020, of providing holistic development of youth of the country, AdtU along with other universities of the country has challenges ahead in tailoring its course superstructure appropriately, keeping in view the principles of multidisciplinary, integration of research with academics, industry-academic interface, international relation, skill-based learning and emphasis on indigenous knowledge and vernacular language. I am happy to see the initiatives taken by AdtU in this direction.

It is very heartening to see the diversity of AdtU student community enriched by students from different states of India and also from three foreign countries in this academic session. It is in this mixed community lies the lesson for students to learn about the virtue of social harmony, brotherhood, tolerance and co-operation and to use it to build a conflict free prosperous and peaceful human society. It is equally heartening to see the progress in AdtU research front in terms of external research fund received from different funding agencies, quality research publication and patent. Overall I find that at the gateway to the second decade of AdtU since its foundation in 2010 it is poised for many breakthroughs in academics and research. I sincerely express my heartfelt gratitude to all the stake holders of AdtU for their continued and unrevealing support and good wishes.

Dr. N. N. Dutta

Chancellor

Assam down town University



Assam down town University

Permission Granted Vide The Assam Act. No. VIII OF 2010, Gazette No. LGL9/2010/11

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Prof. (Dr.) Narayan Chandra Talukdar
Vice Chancellor

FOREWORD

It is with great pleasure and pride that I present to you the Annual Report for the academic year 2022-23 of Assam down town University (AdtU). This report stands as a testament to our unwavering commitment to excellence in teaching, research, innovation and community engagement.

Nestled between the lush Amchang Reserve Forest and the majestic Brahmaputra River, AdtU's tranquil setting in Panikhaiti, Guwahati, Assam provides an inspiring backdrop for our students' academic pursuits. The academic session 2022-23 marks the completion of 13 remarkable years of our university's journey. Founded by the down town Charity Trust in 2010 under the Assam Private University Act 2007, our institution has consistently strived to offer holistic education, nurturing young minds to become skilled and eligible human resources for our society. AdtU's journey has witnessed significant milestones, including the attainment of UGC 2f and 12B status, NAAC accreditation in the 2018-19 assessment and ISO-9001:2015 certification. Over the years, we have expanded our academic offerings to align with the evolving needs of our students, the region and the nation. Our highly qualified faculty has played a pivotal role in fostering a vibrant academic environment that ensure the highest standards in teaching, research and innovation.

In the current academic session, we proudly awarded UG degrees to 1,064 students, PG degrees to 349 students and conferred PhD degrees upon 27 research scholars. Additionally, we honoured two exceptional students with Gold Medals in the Best Graduate and Post-Graduate categories, and bestowed honorary D. Litt. degrees upon two eminent scholars for their outstanding contributions to academia and journalism. Our commitment to fostering a culture of innovation and entrepreneurial excellence is evident in our strategic collaborations. This year, we forged 55 international and 65 national MoUs to enhance the performance of our dynamic academic community and for facilitating a rich exchange of resources, knowledge and skills.

At AdtU, we uphold the values of integrity, responsiveness, excellence, transparency, innovation, societal commitment, inclusivity and sustainability. These principles guide our initiatives both within and beyond the campus, driving us towards meaningful contributions to the Sustainable Development Goals (SDGs) and efforts to alleviate hunger, poverty, and human suffering. This Annual Report for 2022-23 provides a comprehensive overview of our activities, including academic achievements, research endeavours, innovations, consultancy efforts and student placements. It also offers a comparative analysis with previous years, highlighting our growth and impact. The report details our academic accomplishments, support systems, research outputs, publications, patents, infrastructure, outreach activities and the diverse student body which includes students from India and neighbouring countries such as Nepal, Bhutan, Bangladesh and Nigeria. Additionally, the report celebrates the successes of our students in academics, placements, sports and cultural activities.

I extend my heartfelt gratitude to the entire AdtU community including students, staff, faculty and our stakeholders for their steadfast support and dedication. I hope that this report will both engage and inform you about how AdtU is committed to delivering transformative quality education.

With warm regards,


Prof. Narayan Chandra Talukdar

Our VISION

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

Our 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

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

UNIVERSITY PROFILE

1.	Name of the Institution:	Assam down town University
2.	Name of the Head of the institution:	Prof.(Dr.) N.C. Talukdar, Vice Chancellor Contact Information: 03612331003/9401886397 vc@adtu.in/ registrar@adtu.in
3.	Institutional Status:	Private University
	● UGC	2f, 12B
	● NAAC	B, 2.23 CGPA
	Other Accreditation:	ISO 1900-2015, AICTE, AIU (Association of Indian Universities), INC (Indian Nursing Council), PCI (Pharmacy Council of India), IAP (The Indian Association of Physiotherapists)
4.		Received award for Best Private University in North East for Industry Interface 2022 from the Centre for Education Growth and Research (CEGR).
		Received a certificate from News 18 Assam for Excellence in Education Legacy in Assam.
		Received certificate from Innovation Cell, Ministry of Education, Govt. of India, for Adtu's efforts to promote Innovation and Start up in campus.
		Received certificate from National IP Awareness Mission (NIPAM), Ministry of Commerce and Industry, Govt. of India for active participation.
5.	Location:	Panikhaiti, Guwahati
	● State/UT:	Assam
	● Pin Code:	781026
	● IQAC e-mail address	iqac@adtu.in
	● IQAC Phone No.	03617110711
	● IQAC Mobile No.	6003536491
6.	Participation in National/International Rankings:	Participated in NIRF 2022 and QS I-GAUGE 2022
7.	Number of Programmes:	54
8.	Students Admitted (2022):	1671
9.	Number of PhD Scholar on roll:	126
11.	Full Time Faculty Members:	381
12.	Full Time Admin Staff:	182
13.	Full Time Technical Staff:	63
14.	University Website	https://adtu.in/
15.	E-mail address:	vc@adtu.in jd@downtowngroup.org

Approvals & Accreditation



NAAC



UGC



AICTE



Govt. of Assam



INC



PCI



IAP



ISO



AIU

EXECUTIVE SUMMARY

Assam down town University was established through the Assam down town University Act, 2010 in the state of Assam, India in 2010. The university campus spread in an area of 42 acres hilly land in Panikhaiti, Guwahati lay the Brahmaputra River, 12 km from the Assam State Secretariat, Dispur; the capital complex of the state of Assam.

Starting from its humble beginning, the AdtU now offers over 60 courses to over 8000 students from 10 Indian States as well as Nepal, Bhutan, Bangladesh, and also from Nigeria. The university was established by the down town Charity Trust, which is promoted by the down town Hospital Limited. The group has been in education and training since 1993.

The university has two conference halls and one auditorium equipped with the latest and smart audiovisual hall for meetings, conferences, faculty presentations and discussions. The seating capacity of the Seminar hall is 250 and 300 of Auditorium. Conferences, seminars, workshops, guest lectures, cultural events are organized in these facilities of AdtU at regular interval. The university also has a in-campus amphitheater of 4000 capacity.

HISTORY

The educational journey of the group had begun way back in 1993 with the establishment of the down town School of Nursing, the first private nursing school of North East. In 1997 the group started the paramedical institute, for creating qualified human resource with diplomas in various allied health streams. down town Charity Trust had applied to the Assam Government for granting University status to its education programmes in Panikhaiti during the early part of 2009. As per the provisions of the Assam Private Universities Act. 2007, the trust has successfully achieved a University Status for the educational project at its Panikhaiti Campus, vide Assam Gazette No.LGL.9/2010/11 Dated 29 April 2010, making it the second Private University in the state of Assam.

In 2009, the trust started the down town College of Allied Sciences, offering around 12 allied health science programmes, under Srimanta Sankaradeva University of Health Sciences, Govt. of Assam.

SIGNIFICANT CONTRIBUTIONS MADE DURING THE CURRENT YEAR

- Engaged in the review and revision of the existing curriculum to identify opportunities for incorporating multidisciplinary elements in coordination with all academic departments and to explore ways of integrating diverse subjects and creating interdisciplinary courses.
- Academic Administrative Audit was conducted with an objective to assess and evaluate the efficiency, effectiveness, and overall performance of the academic administrative processes and systems within the institution. During the audit, a comprehensive review of various aspects of academic administration was undertaken to identify strengths, weaknesses, and areas requiring improvement.
- The Quality Management System (QMS) Re-certification Audit was conducted to evaluate and verify the institution's compliance with the ISO 9001:2015 standards and requirements. Following a thorough evaluation of the institution's QMS practices, AdtU has received ISO 9001:2015 re-certification in the year 2022.
- Over the course of time (2022-23), the IQAC cell of AdtU has proactively organized and conducted a diverse range of training programs aimed at the development and growth of various stakeholders within our institution. These training initiatives have been thoughtfully designed to equip participants with the knowledge, skills, and tools required to excel in their respective roles and contribute effectively to the University community. IQAC has been instrumental in guiding the university through accreditation in the past processes. It has been meticulous by planning and coordinating various activities of the university to deliver better grade and rank during accreditation from recognized bodies like NAAC, QS I- GAUGE and India Today.

PLANS OF ACTION IN PLACE TOWARDS QUALITY DURING THE ACADEMIC SESSION 2022-23

- Offer platform for training of students, Faculty members, Research scholars, Administrative staffs and Managements Organization of: FDP/Seminars/ Workshop/ Hands on training programs.
- Participation in the process of accreditation, Rating and ranking offered by reputed National and International agencies.
- Implementation of Quality Management System. Organize 5th & 6th Management Review Meeting. Successful completion of Renewal process of ISO 9001:2015 QMS.
- Development of Policy and Standard operating procedures (SOP) for various affairs related to the University. Policy and Standard operating procedures (SOP) : Policies & SOP pertaining to the financial support for doctoral research by external funding agencies like Trusts /Societies/NGOs for the doctoral research scholars of AdtU, Reward and Other Financial Benefits for Research & innovation activities like Publication of paper, books, Patents etc. by the Faculty and Staff Members of AdtU, Policy for Promotion of Faculty, Promotion of Academic Integrity and Prevention of Plagiarism, Disbursement of remuneration to the PhD Supervisors of AdtU, Policy for refund for quality research publications by faculty members.
- AdtU successfully conducted Academic Administrative Audit for the session 2021-22.
- Provision of Scholarships for under graduates and post graduates students.

MULTIDISCIPLINARY / INTERDISCIPLINARY APPROACH

● The vision/plan of the institution to transform itself into a holistic multidisciplinary institution is centered around promoting a comprehensive and integrated learning experience that nurtures creativity, critical thinking, problem-solving, and well-rounded development of students. The institution is committed to fostering multidisciplinary research endeavours to address society's most pressing issues and challenges effectively. It includes establishment of research centers, interdisciplinary research grants, institutional research symposium and conferences, graduate programs with interdisciplinary focus, industry & community partnerships, research incubators and innovation labs, trans-disciplinary curriculum and training, public policy and advocacy initiatives and global collaborations. The institution aims to achieve this transformation through the following strategies:

1. Integrating Humanities & Social Sciences (HSS) with Science, Technology, Engineering & Mathematics (STEM).
2. Open electives and choice based projects are provided to students across all discipline of study, students can also opt for courses online on portals such as SWAYAM, NPTEL, and COURSERA and so on.
3. Integration of practical vocational training and soft skills development into the curriculum to enhance students' employability and overall effectiveness in professional settings.
4. More emphasis on research, debate, communication, and interpersonal skills: Hybrid courses, cross-disciplinary, and interdisciplinary approach.
5. Innovative curriculum in community engagement, environmental education, and value-based education. Students are encouraged to conduct research work in the adopted villages of the institution, and to participate in International and National Commemorative Days such as Blood Donor Day, Women's Day, Children's Day, Environment Day organized inside and outside the AdtU campus.
6. Students and faculty exchange programs, university tie-ups with other national and international organizations/institution to broaden students' horizons and to promote cultural exchange. AdtU has MoU with several other universities/institution both in India and abroad such as INTI International University Malaysia, Daffodil University Bangladesh, IIT Guwahati, NIPER Guwahati, CSIR-NEIST Jorhat, etc.

- Assam down town University under the NEP 2020 guidelines is slowly transforming the regular STEM courses into the new modern STEAM course format with seamless integration of arts and science. The University currently provides courses with electives from any of science or humanities. For example: Under Humanities & Social Sciences, a learner can pursue M.Sc in Clinical Psychology as elective. Similarly Statistics and data analytics and research methodology can be pursued under behavioral sciences.
- The institution has placed a strong emphasis on providing a flexible and innovative curriculum that promotes holistic and multidisciplinary education. The curriculum is designed to include credit-based courses along with projects as a part of a programme in the following areas: community engagement and service, environmental education, and value-based learning.
- The university has organized training and professional development programme for Faculty members to familiarize them with the new curriculum structure and teaching methodologies. Simultaneously, an enhancement of technological infrastructure to support online, blended learning and integration of digital tools, e-learning platforms, followed by development of virtual labs to meet the learning experience of students as per the quality standard recommended in NEP 2020, has also been attempted.
- The institution has successfully implemented several good practices to promote a multi-disciplinary and interdisciplinary approach in line with the National Education Policy (NEP) 2020 such as Interdisciplinary seminars and workshops, Interdisciplinary Student Clubs and Societies and awarded recognition for excellence.

ACADEMIC BANK OF CREDITS (ABC)

- Although the concept of Academic Bank of Credits (ABC) is still in its preliminary stage, yet the AdtU is already making active efforts to encompass various good practices such as Transparent Credit System, Credit Accumulation and Transfer, Credit Recognition for Prior Learning, Credit Transfer Mechanism, Credit Banking and Transcript.
- AdtU has initiated process related to Academic bank of credits as proposed in NEP 2020. The University is finalizing a road map on the seamless integration of ABC guidelines into its governance by enabling the credit accumulation system, flexible course structure, online credit portal, credit transfer agreements and tie-ups with other universities, integration of vocational and skill based credit courses, credit banking and top up, and a transparent credit transfer policy.
- AdtU is making huge efforts in establishing a seamless collaboration with various national and international universities for both faculty and student exchange programs and exploring the prospects in expansion and internationalization of education. It has institutional MoU's with various organizations such as Ashoka Institute, CSIR-NEIST, and Council for Technical Education and Vocational Training, IIT Guwahati etc. as of session 2022-23, and also has signed MoU's with international universities such as Tribhuvan University, Sonargaon University, Krida Wacana, Christian University, and Philippine Normal University etc. during the academic session 2022-23. The credit transfer policy is being formulated and expected to be completed and executed from the next academic session.
- AdtU stresses on an exhaustive and extensive curriculum with its framework to ensure that it encompasses various aspects of an Outcome Based Education (OBE). The deans have been provided a certain degree of autonomy to make decisions regarding curriculum design, teaching methods and assessment formats as long as they align with overall goals and standards of the institution. AdtU also encourages on an open and inclusive environment where faculties can discuss their ideas and concerns with administrators and peers that encourages creativity and adaptability.
- Faculties are encouraged to adopt on a learner centric approach while designing their curricula and teaching methods to accommodate diverse learning styles and improve the scope of differential learning. Faculties are also subjected to various academic exposures such as FDP programmes, webinars, workshops etc that provide training and support for designing innovative curricula and adopting effective pedagogical techniques.
- Faculties are also provided with access to resources, research materials, and technology to facilitate their curriculum and development process and enhance the learning experience. To foster a dynamic and engaging learning environment that meets the needs of both educators and students, the University encourages its faculties to consult external experts for support and academic inputs in designing courses and pedagogy for high level of effectiveness and rich experience of learners.

SKILL DEVELOPMENT

- AdtU focuses on strengthening vocational education and soft skills in alignment with the National Skills Qualifications Framework (NSQF) through various initiatives and strategies. These include curriculum alignment, skill-based training, industry partnerships, certification and accreditation, soft skills development, career counseling, internship opportunities, assessment and evaluation, continuous improvement, and placement assistance. The institution aims to provide students with the skills and competencies as required by the job market, enhancing their technical skills and providing exposure to real-world scenarios.
- AdtU is committed to enhancing skill development in line with the National Education Policy 2020. The university has established partnerships with different organizations, such as Guwahati Bio Tech Park, MSME etc. providing students with hands-on learning experiences. AdtU also fosters connections with different organizations for placement opportunities; ensuring graduates are well-prepared for the job market.
- AdtU also collaborates with industries and employers to design and deliver vocational programs that meet current market demands. The institution's commitment to continuous improvement and placement assistance ensures that its vocational education programs remain relevant and effective.
- The university has Entrepreneurship and Business Incubation Cell, down town Venture Labs, which supports and guides aspiring entrepreneurs. Soft skill trainings are provided to both students and faculty members. Internship programs are available for students. Faculty members are also encouraged to participate in faculty development programs, trainings, and conferences. AdtU's Career Counseling Wing guides students in making informed career choices, aligning their career goals with their interests and strengths.

- The institution offers various optional courses to encourage vocational education and integrate it into mainstream education. These are offered under Faculties of Humanities and Social Sciences, Commerce and Management, Pharmaceutical Science, Paramedical Sciences, Engineering & Technology Sciences, Nursing and Science. These optional courses cover social problems, positive psychology, legal system, life skills, mindfulness, NGO administration, Indian society studies, project management, and social entrepreneurship.
- AdtU has established a credit structure that requires all students to complete at least one vocational course before graduating. This is accomplished by introducing occupational courses as part of the degree requirements into the curriculum. By granting credit for various courses, a Faculty of Study encourages students to pursue diverse vocational interests while also providing them with practical skills. The institute works with industry veterans and Master Craftspeople to bridge the gap between theoretical knowledge and practical requirements. The accomplished individuals are invited to act as guest faculty or mentors, who pass on occupational skills from their most real-world experiences. This effort of enhancing the AdtU has been very helpful in learning process.
- The institution is dedicated to offering value-based education to students in order to promote positivism and holistic development. It includes a holistic strategy with focus on the development of humanistic, ethical, constitutional, and universal human values. The institution incorporates value-based components into all academic area and ensures that students are exposed to these principles in a variety of circumstances, boosting comprehension and internalization. Each programme offered by the university includes an ethical subject pertinent to the course, ensuring that students receive ethical education as part of their educational experience.

APPROPRIATE INTEGRATION OF INDIAN KNOWLEDGE SYSTEM

- The institution has undertaken comprehensive and dedicated efforts to contribute preserve and promote various aspects of Indian heritage, including Indian languages, Indian ancient traditional knowledge, Indian arts, Indian culture and traditions. For example, during Baishnav era, Mahapurush Srimanta Sankardev used leaf of Agarwood (Sashipat) to write his spiritual script. During that time, other scholars also used to write in Sachipat and some of these are available in upper Assam. AdtU has started collection of these with proper record and acknowledgement and maintained in AdtU library.
- Assam down town University is engaged in continuously evolving the seamless integration of Indian Knowledge System into the curriculum via either the offline, online mode or both. It follows a detailed strategy often comprising of Curriculum Review to identify areas where Indian Knowledge can be seamlessly integrated onto the educational curriculum.
- Currently programme of Performing Arts under Faculty of Humanities and Social Sciences offer variety of courses such as Sociological concepts and Indian Society, Indian Culture and Art, Concept of Hindustani Classical Music/Indian Classical Dance/Drama, Essence of Indian Traditional Knowledge etc. Moreover essence of Indian Traditional Knowledge is offered as an online course on SWAYAM by the Faculty of Engineering & Technology.
- AdtU follows a comprehensive institutional plan (on a need basis) to train its faculties to provide the classroom delivery in bilingual mode, covering English and Hindi as students are from different states and their mother tongues are diverse. Teachers make attempt to convey complex idea in regional language whenever possible. Classroom delivery is based on need assessment, language proficiency training, pedagogical training, English language lab, practice sessions, guest lectures and workshops, peer collaboration.
- Assam down town University as part of its institutional good practice pertaining to Indian Knowledge System often conducts online cultural events, festivals and seminars that celebrate India's diverse cultural heritage fostering a sense of pride and identity of rich heritage of different states of India among the learners.
- AdtU also emphasizes the study and appreciation of indigenous knowledge systems and traditional practices of indigeneous community to showcase their relevance in the modern context. Incorporation of multimedia as audio-visual aids such as videos, infographics and visuals is to enhance the learning experience and make cultural concepts more understandable. This practice is followed religiously in AdtU. Blended libraries and repositories of Indian literature, music, art and other historical resources allow the learners to explore the vast Indian Cultural Heritage. Posters and photo-frames of various cultural art and dance forms along with brief description can be found throughout the campus both inside and outside the building.

FOCUS ON OUTCOME BASED EDUCATION (OBE)

- AdtU has implemented comprehensive measures to align its curriculum with Outcome-Based Education (OBE) principles. This approach focuses on defining specific learning outcomes for students to be achieved by the students at the end of different academic programs. Initiatives such as learning outcome mapping, collaboration among faculty to establish clear and measurable learning objectives, and curriculum restructuring to emphasize practical application and real-world relevance are part of this transformation.
- The institution promotes a student-centric approach, encouraging active student engagement and goal-setting. Moreover, stakeholders, including faculty, students, industry experts, and alumni are actively involved in the OBE implementation process through regular feedback and discussions, ensuring continuous improvement and alignment with their evolving needs.
- These strategies include competency-based instruction, employing active learning techniques, group projects, case studies, and problem solving exercises to develop students' practical skills. Continuous formative assessments are used to monitor students' strengths and weaknesses,
- AdtU provides timely support for learning needs of students. Additionally, project-based learning is practiced to foster critical thinking, teamwork, and problem-solving abilities, aligning with the application-oriented philosophy of OBE.

B. EDUCATION THROUGH DIGITAL MODE

- While AdtU currently does not have a distance education program, but open and digital mode of learning is ensured for students from physically remote but digitally accessible areas, and those with other commitments. AdtU has put efforts to collaborate with industry partners for facilitating practical training and internships for students at local centers, ensuring hands-on experience. This mode of education creates a flexible and accessible learning environment, aligning with the National Education Policy (NEP) 2020's vision of expanding the reach of quality education.
- AdtU recognizes the significance of technological tools for enhancing teaching-learning activities and has made efforts towards blended learning. Blended learning combines traditional classroom instruction with online elements, promoting a more dynamic and interactive learning experience. The AdtU has integrated various technological tools, such as Learning Management Systems (LMS), video conferencing platforms, and multimedia resources, to facilitate online lectures, assignments, and discussions. Faculty members receive training and support to effectively utilize these tools to engage students actively. Additionally, the institution encourages flipped classroom models, where students access instructional content online before attending in-person classes for discussions and practical application. Blended learning allows students to learn at their own pace while benefiting from face-to-face interactions with peers and faculty. These efforts align with NEP 2020's emphasis on digital learning and the integration of technology in education

ADTU HUMAN RESOURCE PROFILE IN 2022-23

WIn the academic year 2022-2023, Assam down town University undertook a meticulous process for selecting and recruiting new teaching staff, adhering strictly to the criteria and guidelines established by the UGC. The recruitment process involved a well-structured selection committee chaired by the Vice Chancellor or his nominee to ensure fairness and transparency. During this period, the University successfully appointed 67 new faculty members across various disciplines, including 46 Assistant Professors, 12 Associate Professors, and 15 Professors. PhD-degrees of the candidates for different positions were one of the important criteria in short listing of candidates. Consequently all the newly recruited faculty members had possessed PhD degrees.

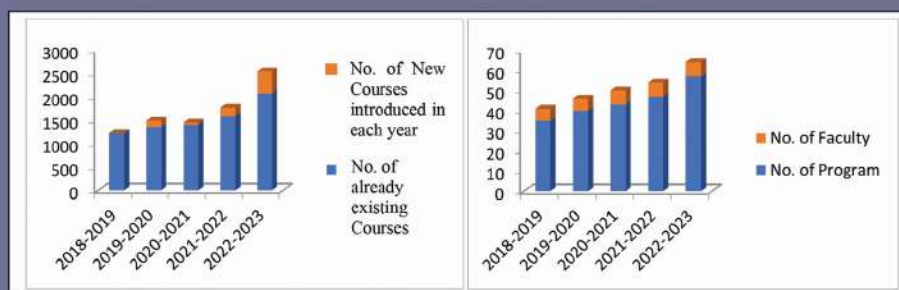
In addition to these appointments, the University enhanced its educational offerings by engaging distinguished scientists, professors, and other eminent experts from leading institutions for specialized lectures. This approach allowed the University to leverage the expertise of reputed scholars and researchers, enriching the learning experience for students. By arranging visits of esteemed professionals and inviting them to deliver lectures, the University effectively incorporated external academic and research resources into its curriculum, thereby providing students with valuable insights and advanced knowledge which were cummulitively integrated in the academic profile during their associations with the prestigious institutions of eminence.

The faculty in positions at different ranks during the Academic year 2022-23

Particulars	Professor			Associate Professor			Assistant Professor/Lecturer			Total
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Existing	28	7	35	32	14	46	140	162	302	381

THE CURRICULUM, SYLLABI AND COURSES

In the academic year 2022-2023, Assam down town University demonstrated a commitment to comprehensive and dynamic education through its meticulously designed curriculum and syllabi across its diverse programs. The University introduced new programs, including the Master of Business Administration (Corporate Finance) and BTech (Computer Science and Engineering with a focus on Data Science and Artificial Intelligence), alongside existing ones such as BSc Nursing, MSc Nursing, and various engineering, science, and humanities courses. AdtU also ambitiously introduced 4 new programs namely B.A. (History), M.A. (History), B.A. (Mass Com.) and M.A. (Mass Com.) under the faculty of Humanities and Social Science. The curriculum for all programs adhered to norms set by regulatory bodies like UGC, AICTE, and PCI, ensuring the inclusion of well-defined Program Learning Objectives (PLO), Program Outcomes (PO), and Course Outcomes (CO). Emphasizing holistic student development, the syllabi were crafted to address local, regional, national, and global issues. For instance, engineering students focused on solving flood-related problems in NE India, while science students explored the fermentation of indigenous fruit resources and biofertilizer production. The Civil Engineering final students developed and executed a project on stabilization of the soil of hilly terraiings of AdtU campus. Health programs tackled specific issues such as metabolic syndrome, while social sciences addressed tribal village economic and social issues. Additionally, common courses on environmental science, human values, ethics, and Intellectual Property Rights (IPR) were integrated across all programs. The University also introduced elective courses to broaden students' knowledge and practical skills in areas such as public health, nutrition, and renewable energy. The curriculum evolved dynamically, with periodic revisions to incorporate industry needs and societal changes, including new programs like MBA in Healthcare Management and Masters in Travel and Tourism Management. Emphasizing learning, research, and social perspectives, the curriculum facilitated advanced theoretical and practical knowledge, research opportunities relevant to the NE region, and extensive outreach programs in adopted villages, reinforcing the University's commitment to societal development and student empowerment



Details of faculties, academic programs, no. of new courses introduced in each year to the already existing courses in that year for the five consecutive academic years

Composition of various Governing and Administration Committees

Established and Governed by the “Assam down town University Act, 2010 (Act No. VIII of 2010) as passed by Assam State Legislature and notified in Assam Govt. Extraordinary Gazette dated 29th April, 2010. AdtU is also recognized by the University Grants Commission under Section 2(f) of the UGC Act.

Assam down town University Act provides for the following Statutory Authorities of the University:

Governing Body (GB):

Governing Body is the supreme authority of the university. All the movable and immovable properties of the university vest in the governing body

Functions of GB:

- i) To provide general superintendence the directions in the matter of management of the university and to control functioning of the university by using all such powers as provided by the Act or the Statutes, Ordinances, Regulations or Rules made there under.
- ii) To review the decisions of other authorities of the university in case they are not in conformity with the provisions of the Act or the Statutes, Ordinances, Regulations or Rules made there under.
- iii) To approve the Budget and Annual Report of the university.
- iv) To lay down the extensive Policies to be followed by the university.

Governing Body of AdtU

1. Dr. N. N. Dutta, Chancellor,	Chairperson
2. Prof. (Dr.) Narayan Chandra Talukdar, Vice Chancellor,	Member
3. Dr. Nandita Choudhury,	Member
4. Prof. (Dr.) Amarjyoti Choudhury,	Member
5. Mr. Biswa Datta,	Member
6. Dr. B.K. Gogoi,	Member
7. Dr. Debashish Mitra,	Member
8. Ms. Mayurakshi Dutta,	Member
9. Ms. Gariasi Dutta,	Member

Board of Management:

Principal executive body to lay down Policies to be followed by the university and the various bodies and to review the decision of other authorities of the university, to approve the budget and annual report of the university. The composition is as follows:

Board of Management of AdtU

Sl. No.	Name and Designation	Position
1.	Prof. (Dr.) N. C. Talukdar, Vice Chancellor	Chairperson
2.	Prof. (Dr.) Pranveer Singh, Pro Vice Chancellor	Member
3.	Ms. Mayurakshi Dutta, Trustee	GB Representative
4.	Ms. Gariasi Dutta, Resident Trustee	GB Representative
5.	Prof. Bandana Dutta, Dean of Studies	Trustee's Representative
6.	Mr. Joutishman Dutta, Managing Trustee	Trustee's Representative
7.	Dr. Sunandan Baruah, Director, Directorate of Innovation, Startup and Acceleration (DISA)	Teacher, nominated by the Trust
8.	Prof. Seema Sharma, Dean, Faculty of Commerce and Management	Teacher, nominated by the Trust
9.	Prof. Rajeev Sarmah, Professor, Faculty of Science	Teacher, nominated by the Trust
10.	Prof. Biplab Kumar Dey, Chairperson, Faculty of Pharmaceutical Science	Teacher, nominated by the Vice Chancellor
11.	Prof. Abhijit Dutta, Dean, Faculty of Paramedical Sciences	Teacher, nominated by the Vice Chancellor
12.	Mr. Nitul Jyoti Das, Dy. Registrar (Academic)	Member
13.	Mr. Ashim Barman, Additional Registrar (Administration)	Member Secretary

Academic Council:

Principal Academic body of the University to co-ordinate and exercise general supervision over the academic policies of the university.

Academic Council of AdtU

Sl. No.	Name and Designation	Position
1.	Prof. (Dr.) N. C. Talukdar, Vice Chancellor	Chairperson
2.	Prof. (Dr.) Pranveer Singh, Pro Vice Chancellor	Member
3.	Prof. Bandana Dutta, Dean of Studies	Chairman of the Board of Studies
4.	Ms. Gariasi Dutta, Resident Trustee	Board of Management member, nominated by Chancellor
5.	Mr. Joutishman Dutta, Managing Trustee	Board of Management member, nominated by Chancellor
6.	Prof. A.K. Goswami	Eminent expert in the field of higher education nominated by Chancellor
7.	Dr. Biren Das, Registrar, Tezpur University	Head of a recognized institution nominated by Vice Chancellor
8.	Prof. Rajeev Sarmah, Professor, Faculty of Science	One teacher representing various faculty co-opted by academic council
9.	Prof. Saikat Sen, Dean, Faculty of Pharmaceutical Science	One professor amongst the professor in the University and Dean of Faculty
10.	Prof. (Dr.) T.V.V.L.N. Rao, Dean, Faculty of Engineering	Dean of Faculty
11.	Prof. Khem Bahadur Pun, Dean, Faculty of Agricultural Sciences and Technology	Dean of Faculty
12.	Prof. Seema Sharma, Dean, Faculty of Commerce And Management	Dean of Faculty
13.	Prof. Utpal Barman, Dean, Faculty of Computer Technology	Dean of Faculty
14.	Prof. Manashi Sengupta, Dean, Faculty of Nursing	Dean of Faculty
15.	Prof. Abhijit Dutta, Dean, Faculty of Paramedical Sciences	Dean of Faculty
16.	Dr. Manash Pratim Sarma, Dean, Faculty of Science	Dean of Faculty
17.	Dr. Prateeti Barman, Dean, Faculty of Humanities and Social Sciences	Dean of Faculty
18.	Mr. Nitul Jyoti Das, Dy. Registrar (Academic)	Member
19.	Dr. Bholu Chourasia, HoD, Hospitality and Tourism Management	Member
20.	Mr. Ashim Barman, Additional Registrar (Administration)	Member Secretary

Finance Committee

Principal financial body to take care of financial matters prepares, financial estimates, annual accounts, etc.

MEMBERS:

1. Dr. N.N. Dutta, Chancellor	Chairperson
2. Prof. (Dr.) N.C. Talukdar Vice Chancellor, Vice Chancellor	Member
3. Mr. Joutishman Dutta, Chief Finance & Accounts Officer,	Member
4. Mr. Ashim Barman, Addl. Registrar (Administration)	Member
5. Mr. Debojit Bhattacharya, Dy. CoE	Member
6. Mr. Jaydeep Kakati, Finance & Accounts Officer	Member Secretary

FUNCTIONAL COMMITTEES OF THE UNIVERSITY:

The University adopts both top down and bottom up approach for effective functioning. However, the decisions are to be approved by appropriate statutory bodies/-committees of the University. The following functional committees are in place, besides the statutory bodies for effective functioning:

1. Core Committee
2. University Affairs Coordination Committee (UACC)
3. Programme Advisory Committee (PAC)
4. University Research Council for PhD Research administration (URC)
5. Board of Research of AdtU (BoR)
6. Faculty Research Council (FRC)
7. Internal Quality Assurance Cell (IQAC)
8. External Project Review Committee (EPRC)
9. Internal Research Review Committee (IRRC)
10. Examination Committee (EC)

11. University Level Student Affair & Student Committee (ULSASC)
12. Faculty Level Students' Affair Committee (FLSAC)
13. Placement Committee (PC)
14. Faculty Level Placement Committee (FLPC)
15. Anti-Ragging Cell (ARC)
16. Purchase Committee (PC)
17. Internal Compliance Committee (ICC)
18. Legal Compliance Committee (LCC)
19. Disciplinary Action Committee (DAC)
20. Grievance Redressal Committee (GRC)
21. Campus Development & Management Committee (CDMC)

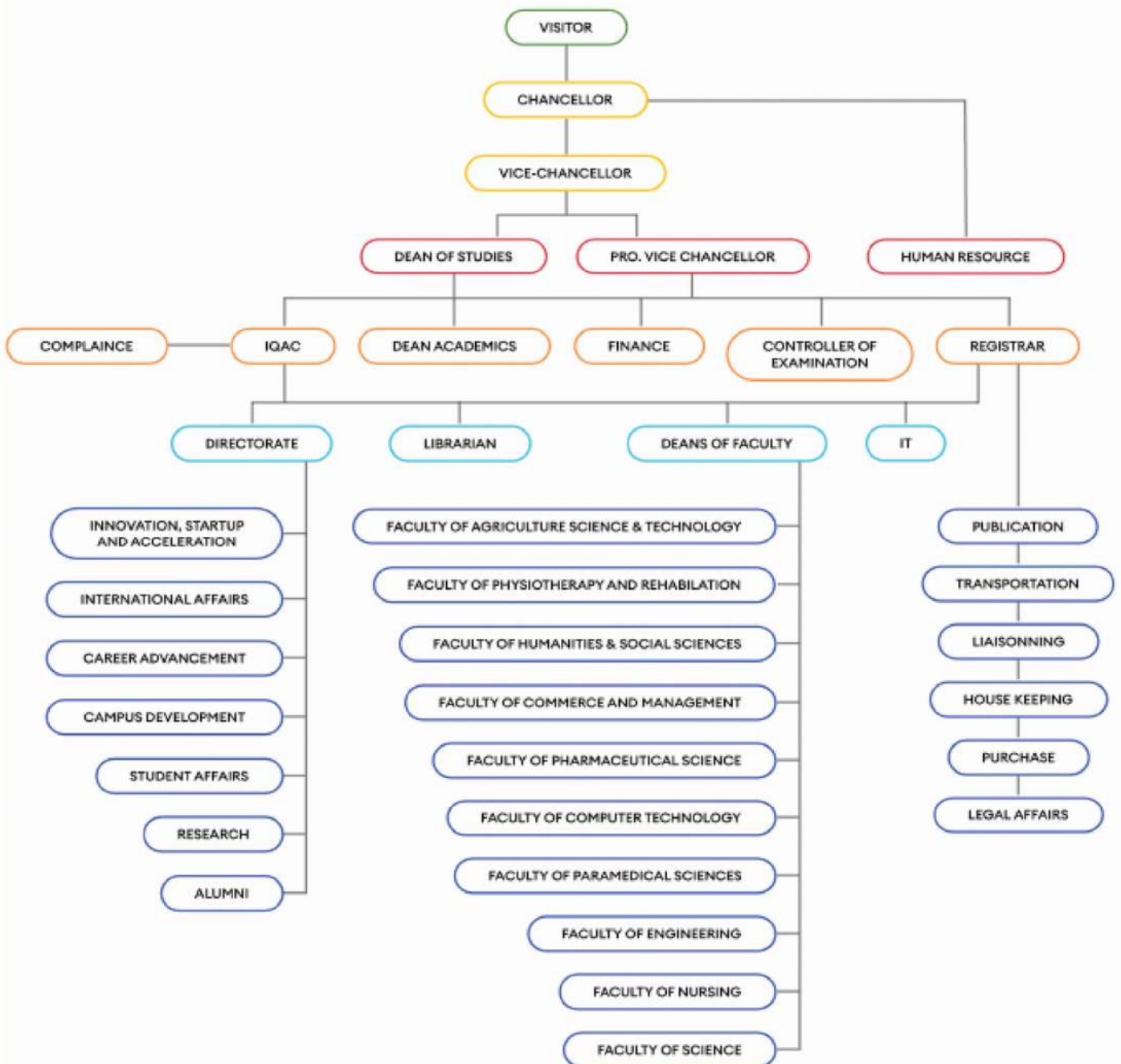
The accountability is ensured through regular academic audits, performance evaluations of faculty and feedback obtained from various stakeholders.

Officers of the University

As stipulated in the Act, the following are the Officers of the University:

- THE VISITOR (GOVERNOR OF ASSAM)
- THE CHANCELLOR
- THE VICE CHANCELLOR
- CHIEF FINANCE AND ACCOUNTS OFFICER
- Other officers as declared by the Statutes to be officers of the University.

University Organogram

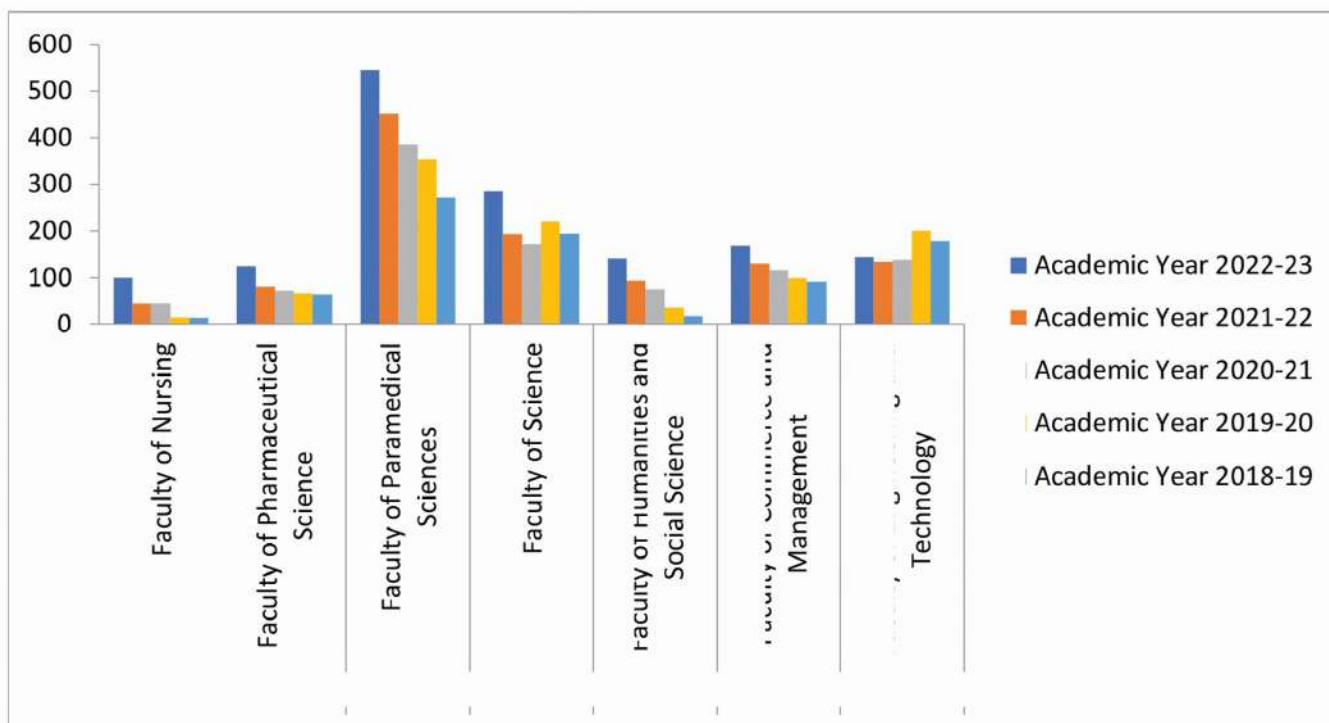


Cell/ Directorates/Center of AdtU

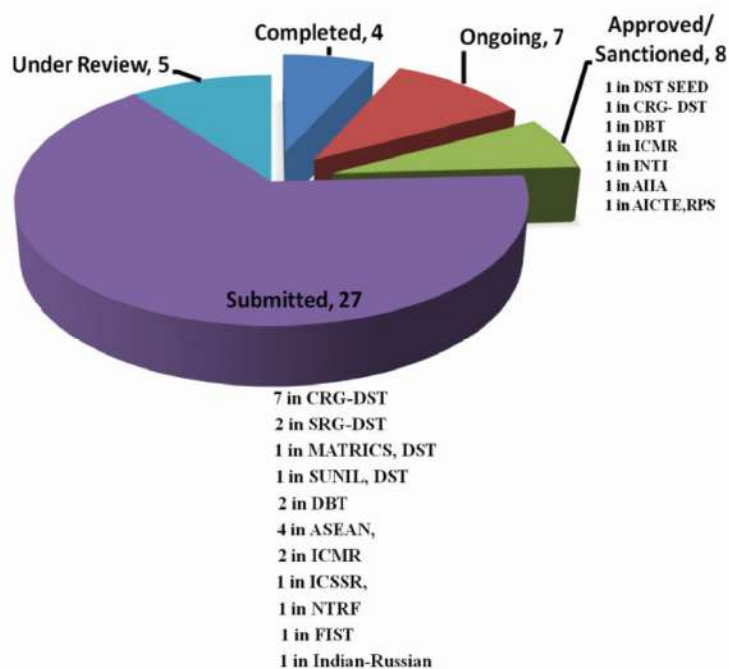
- Internal Quality Assurance Cell (IQAC)
- Admission Cell (AC)
- Controller OF Examination (CoE)
- Grievance Cell (GC)
- Directorate of Research (DoR)
- Directorate of International Affairs (DIA)
- Directorate of Career Advancement (DoCA)
- Centre for Language Proficiency and Professional Development (CLPPD)
- Directorate of Alumni Affairs (DoAA)
- Directorate of Students Affairs (DoSA)

Academic and R&D Growth of AdtU for the last five years

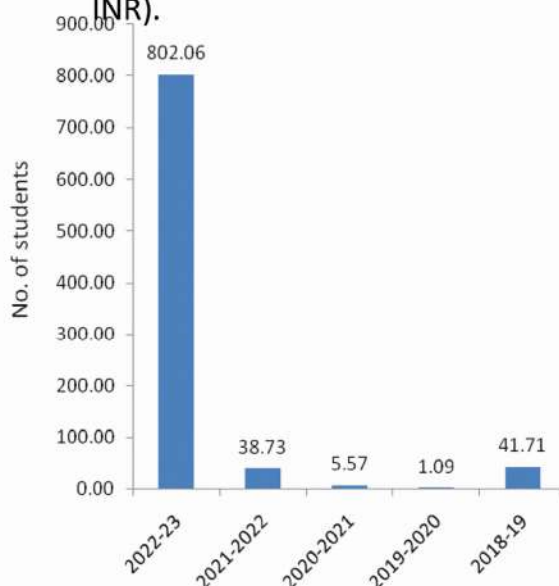
A. The number of students admitted to various faculties over the past five years



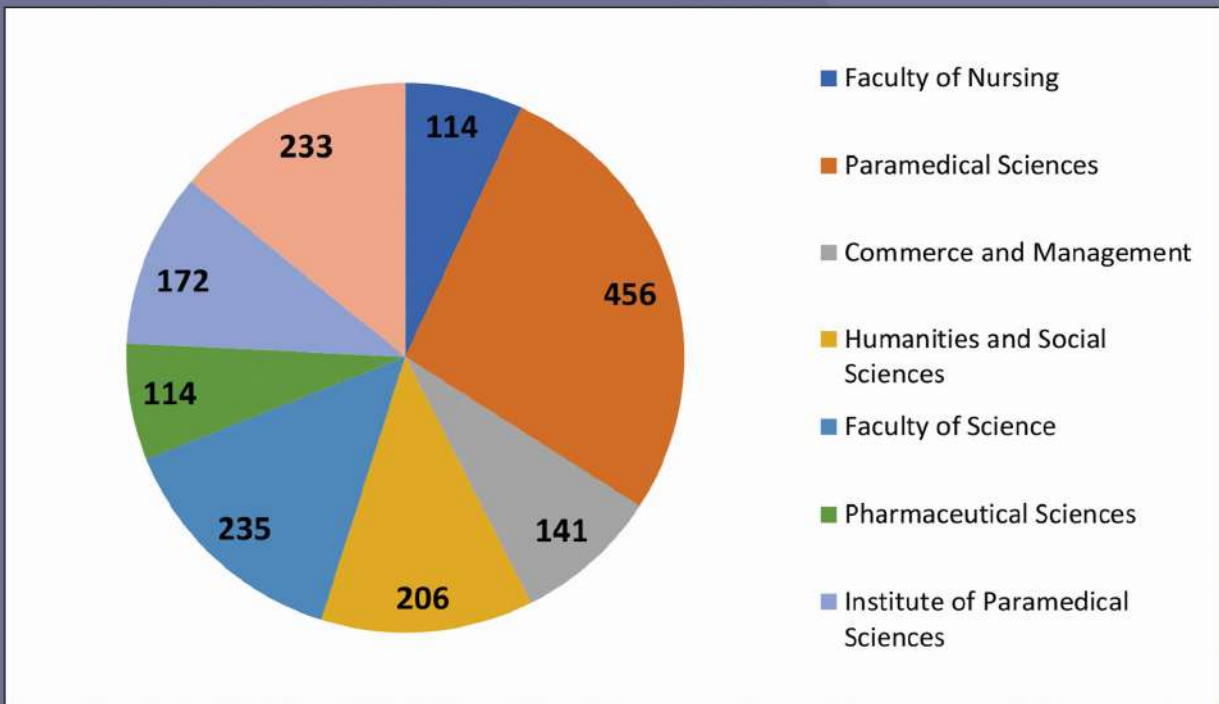
B. Research project proposals submitted to various government agencies for funding



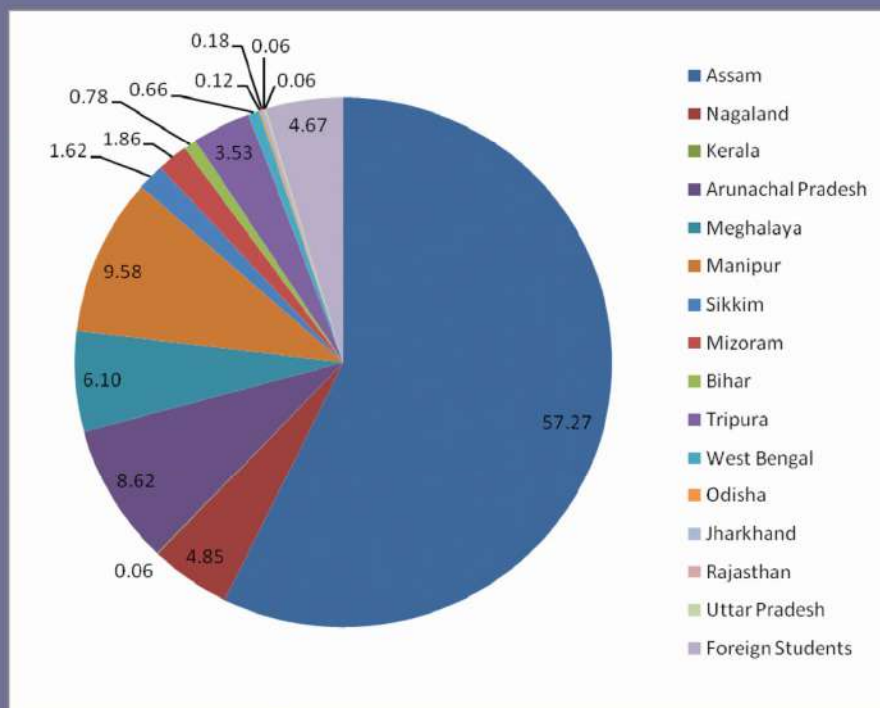
C. The total amount received in extramural research grants over the past five years (in lakhs of INR).



Admission Statistics and Student Community Composition



Total Students admitted in various Faculty of Studies in the Academic Year 2022-2023



Present Composition of Students Community of AdtU from different states of India and foreign countries

Program-wise Admission Statistics

Sl. No.	Program Code	Program Name	Number of seats sanctioned	Number of students admitted
1	BSNO	BSc Nursing	60	60
2	MSNO	MSc Nursing (Obstetrics and Gynecological Nursing)	5	5
3	MSNM	MSc Nursing (Medical Surgical Nursing)	5	4
4	MSNC	MSc Nursing (Child Health Nursing)	5	5
5	PBBN	Post Basic BSc Nursing	40	40
6	BPHS	Bachelor of Pharmacy	100	99
7	MPHS	MPharm (Pharmacology)	6	6
8	MPHP	MPharm (Pharmaceutics)	9	9
9	BEDM	BSc (Bachelor of Trauma, Emergency and Disaster Management)	35	35
10	BRIT	BSc (Bachelor of Radiography and Advanced Imaging Technology)	180	176
11	BPTO	Bachelor of Physiotherapy	120	119
12	BOTT	BSc (Bachelor of Operation Theatre Technology)	30	25
13	BOPT	BSc (Bachelor of Optometry)	60	57
14	BMLT	BSc (Bachelor of Medical Laboratory Technology)	150	103
15	BDIT	BSc (Bachelor of Dialysis Technology)	55	52
16	BCIC	BSc (Bachelor of Critical and Intensive Care Unit Technology)	35	32
17	MPTO	Master of Physiotherapy	15	15
18	MMLT	MSc (Master of Medical Laboratory Technology)	15	12
19	MECC	MSc (Master of Emergency and Critical Care)	10	2
20	BSFS	BSc (Forensic Science)	45	44
21	BSMB	BSc (Microbiology)	30	29
22	BSFD	BSc (Food Nutrition and Dietetics)	35	35
23	BSBT	BSc (Biotechnology)	35	34
24	MSBT	MSc (Biotechnology)	15	15
25	MSZO	MSc (Zoology)	20	19
26	MSMB	MSc (Microbiology)	25	22
27	MSFD	MSc (Food Nutrition and Dietetics)	25	24
28	MSBO	MSc (Botany)	15	13
29	BSWO	BA (Social Work)	15	15
30	BASO	BA (Sociology)	15	15
31	BPYO	BA (Psychology)	45	43

Sl. No.	Program Code	Program Name	Number of seats sanctioned	Number of students admitted
32	BAPA	BA (Performing Arts)	5	4
33	MSWO	MA (Social Work)	30	26
34	MSCP	MSc (Clinical Psychology)	25	24
35	MASO	MA (Sociology)	5	5
36	MAAP	MA (Applied Psychology)	10	9
37	BHMC	Bachelor of Hotel Management and Catering Technology	10	10
38	BBAO	Bachelor of Business Administration	85	83
39	MBAH	Master of Business Administration (Healthcare Management)	20	16
40	MBCF	Master of Business Administration (Corporate Finance)	10	10
41	MBAO	Master of Business Administration	60	59
42	BCAO	Bachelor of Computer Application	40	40
43	BTME	BTech (Mechanical Engineering)	30	11
44	BCSM	BTech (Computer Science and Engineering on Data Science and Artificial Intelligence)	75	62
45	BCSO	BTech (Computer Science and Engineering)	60	60
46	BTCM	BTech (Civil Engineering Construction Management)	20	1
47	BTCE	BTech (Civil Engineering)	120	59
48	BTTO	BA (Tourism Management)	10	9
49	BHMO	BSc (Hotel and Catering Management)	10	9
50	MTTO	Master of Tourism and Travel Management	10	10
Total Number of Students			1890	1671

Examination Details

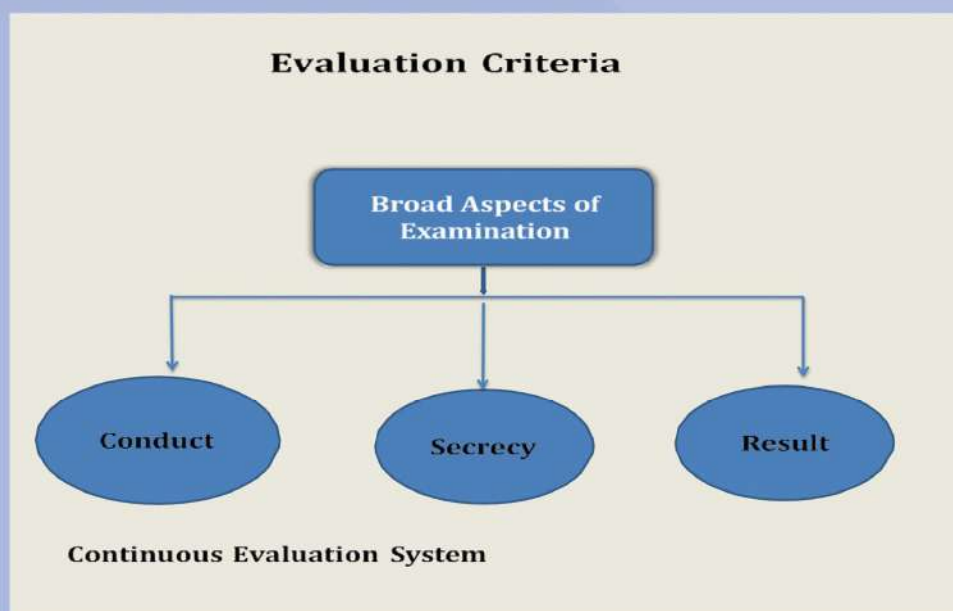
1. Introduction:

The changing educational scenario and a paradigm shift of education from prototype traditional structure to professional education in the country in the last part of last century attracted many budding social enthusiasts to invest in the educational sector in the private sector particularly for imparting technical and management education across the country. Assam down town University made a modest beginning in 2010 with a view to impart best of the education to the future human resources in education sector, entrepreneurs and managers. Over the years, the University has made a mark in the educational segment and is today reckoned among the top institution in the North East Region of the country. Assam down town University advocates strong commitment to a high quality teaching and research for comprehensive education to enhance the professional competence of the students having in-depth knowledge and innovative approach. The University since its inception in 2010 has adopted the holistic view of the education. The updation in the curriculum, teaching and evaluation processes is a regular activity. From its inception, the vision of the University is to be an institution of Academic Excellence with total commitment to quality education, research and improvement in human values with a holistic concern for better life, environment and society. The University aspires to achieve benchmark of academic practices as per with international standards. The Office of the Controller of Examination (CoE) is headed by the Controller of Examinations who reports to the Vice-Chancellor of the university. The Deputy and Assistant Controller of Examinations work under the supervision of the CoE. The office is governed by the university regulation - Rules and Regulation for Conducting Examinations.

2. Mode of Evaluation adopted by the University:

Assam down town University follows an inbuilt mechanism in conducting fair and transparent evaluation for the benefit of the students. There is a separate Examination Regulations for each and every programme offered by the University showing in detail the Programme duration, Course structure and Curriculum, Marks distribution, Passing Criteria, eligibility criteria to appear the various examinations, Number of chances to appear in an examination to complete a programme etc. Regulations for various Programmes offered by the University are duly approved by the respective Board of Studies.

3. Evaluation:

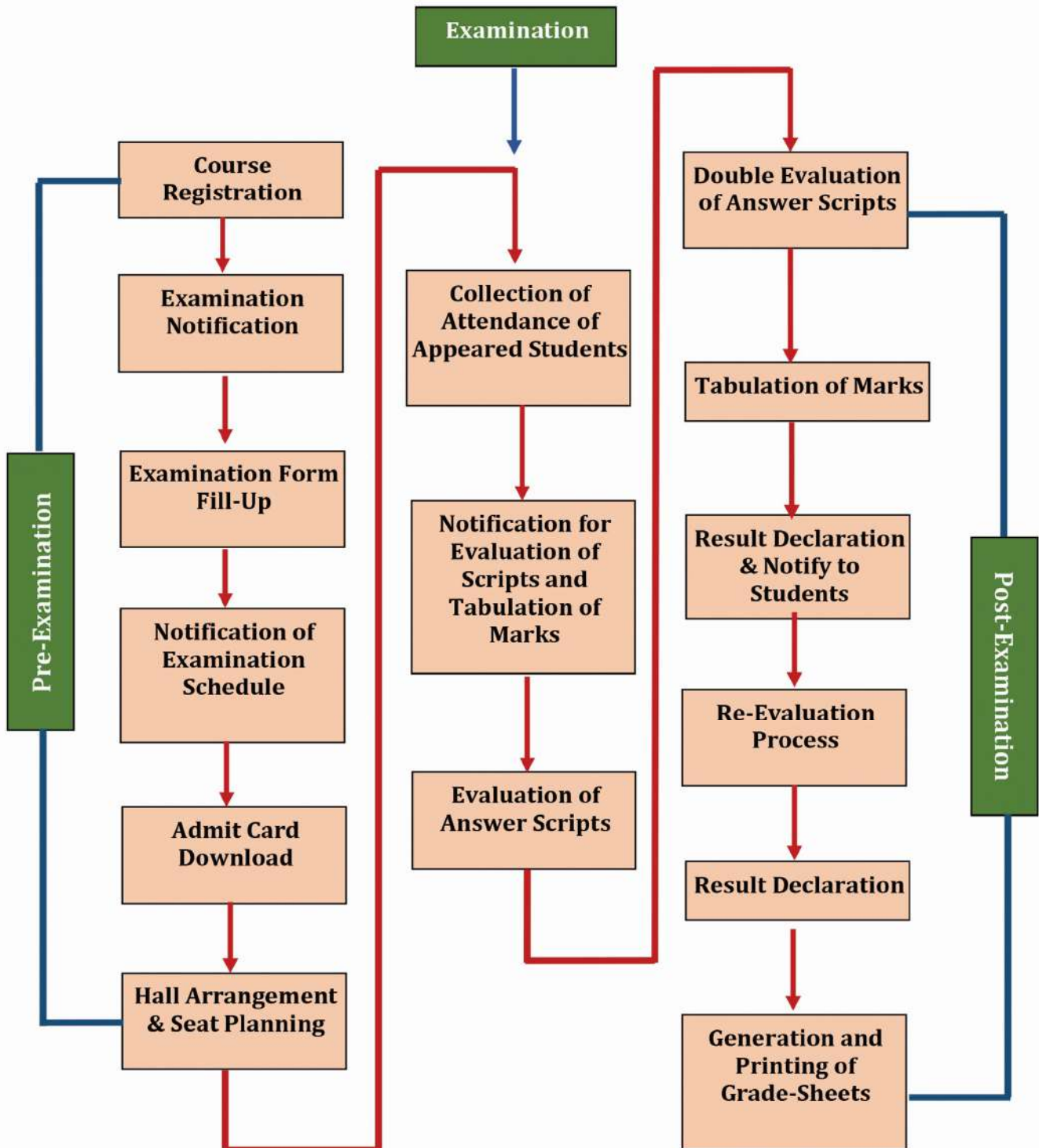


The university follows the continuous evaluation system and accordingly the students are evaluated on the basis of their performance in-semester and end-semester examination. The mode of evaluation of all the courses across faculty of study follows 40:60 ratios, where 40% marks is from in-semester evaluation and 60% is marked for end-semester examination. The in-semester component comprises of mid-semester examination, sessional examination, presentations, quizzes, assignments and project work. The bulk of the end-semester component of examination is descriptive and proctored. The examination and evaluation of different courses under the Faculty of Pharmaceutical Science and Faculty of Nursing are conducted as per the Regulations of Pharmaceutical Council of India (PCI) and Nursing Council of India (NCI) respectively.

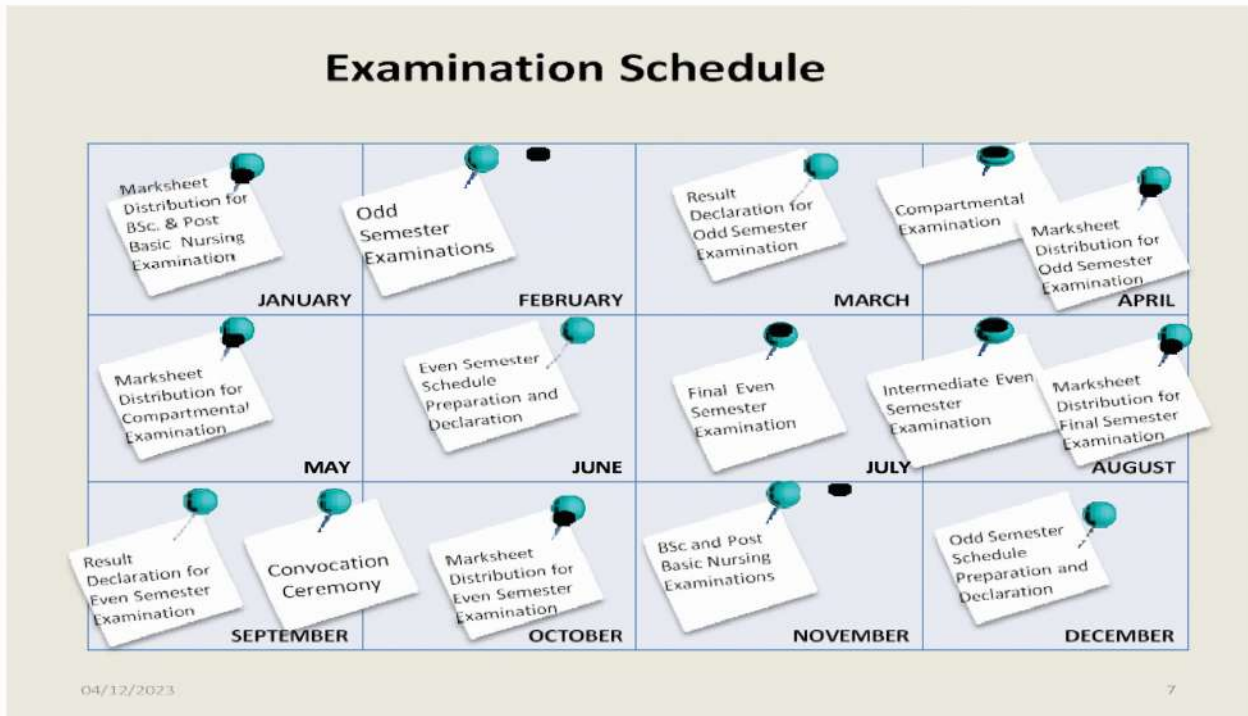
The practical examinations are conducted under the strict supervision of an internal expert and an external expert. The experts are appointed by Controller of Examination with the approval of Dean of Studies and Vice-Chancellor.

The final evaluation of the student is carried out taking into account both the in-semester and end-semester component. The university follows GPA system of evaluation, where Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) reflect the final performance of the student. The minimum criteria for promotion to next semester/year are 40% for the Under-graduate students and 50% for Post- Graduate student.

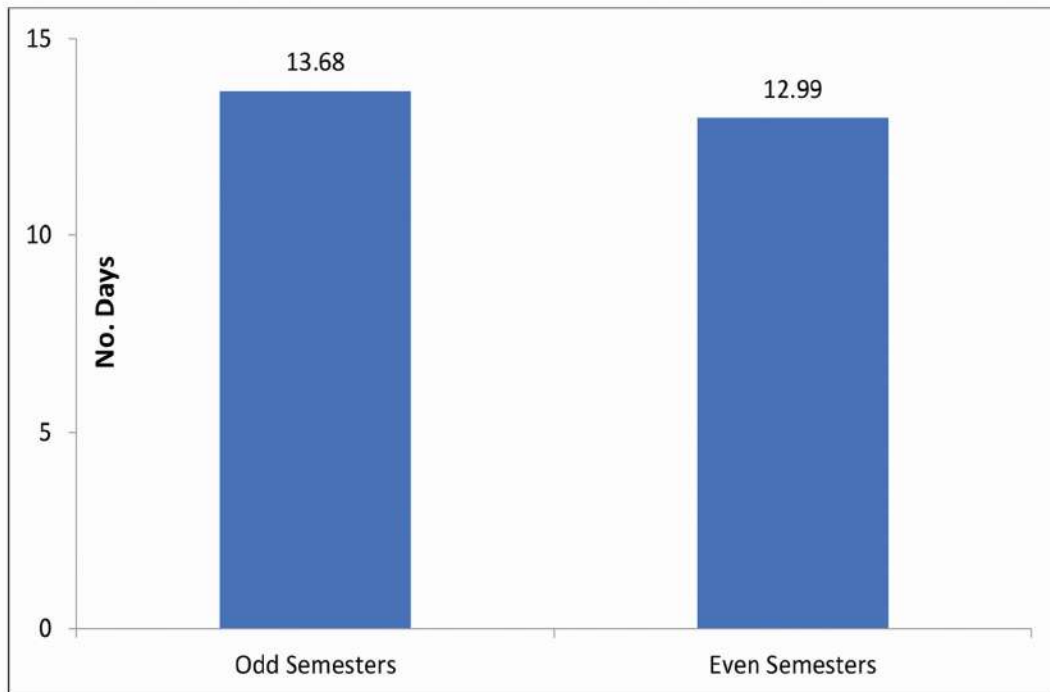
4. Work Flow Chart followed by Controller of Examination in conducting examination:



5. Examination Calendar of the Session 2022-23:

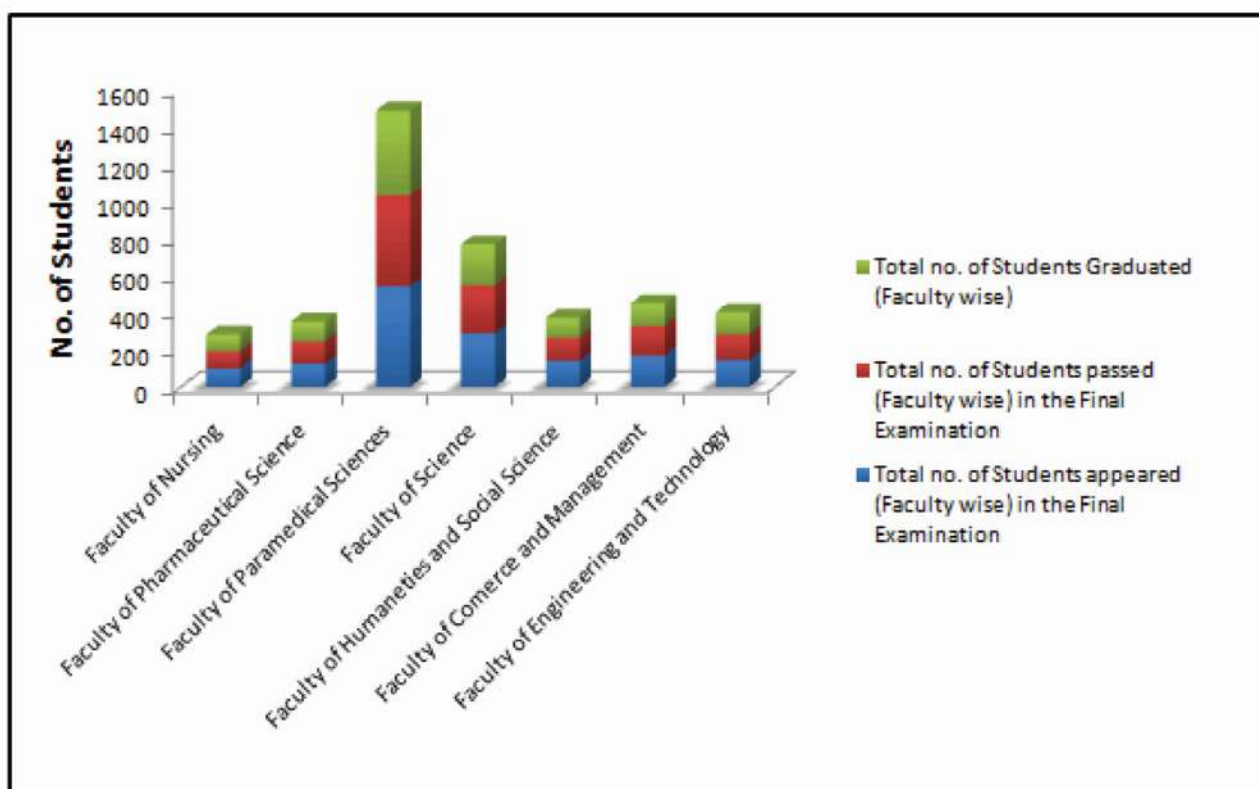


6. Graphical representation of average duration to declare results after final exam.

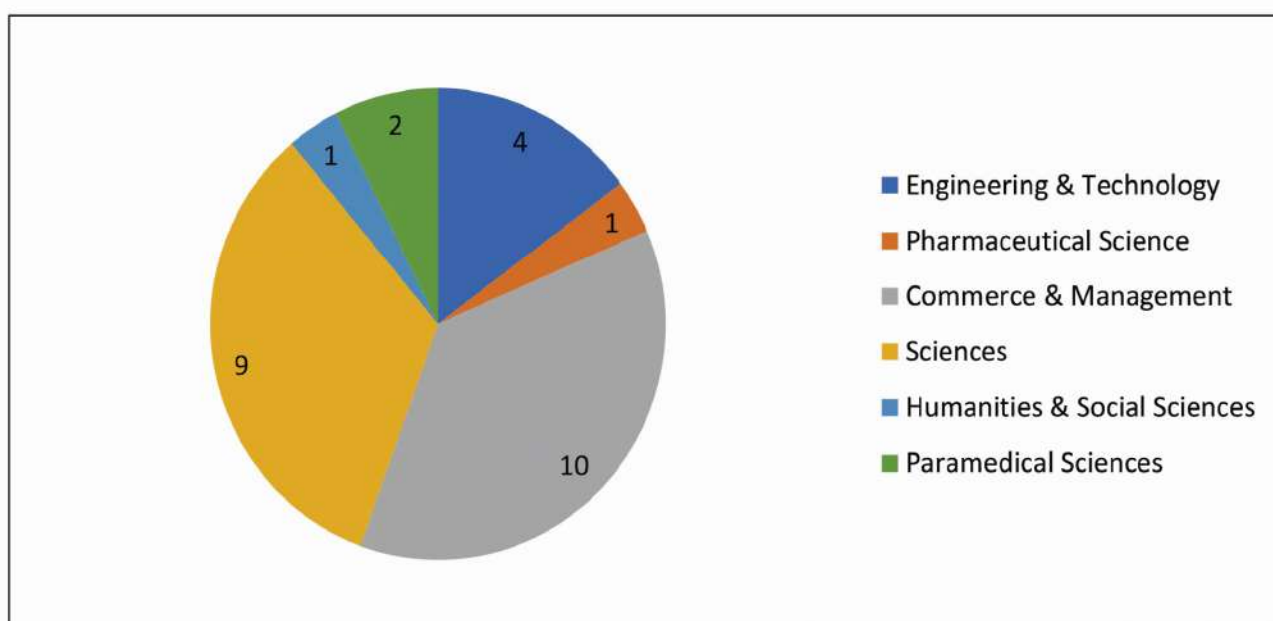


Average number of days between the end of exams and the declaration of results for odd and even semesters across various programs

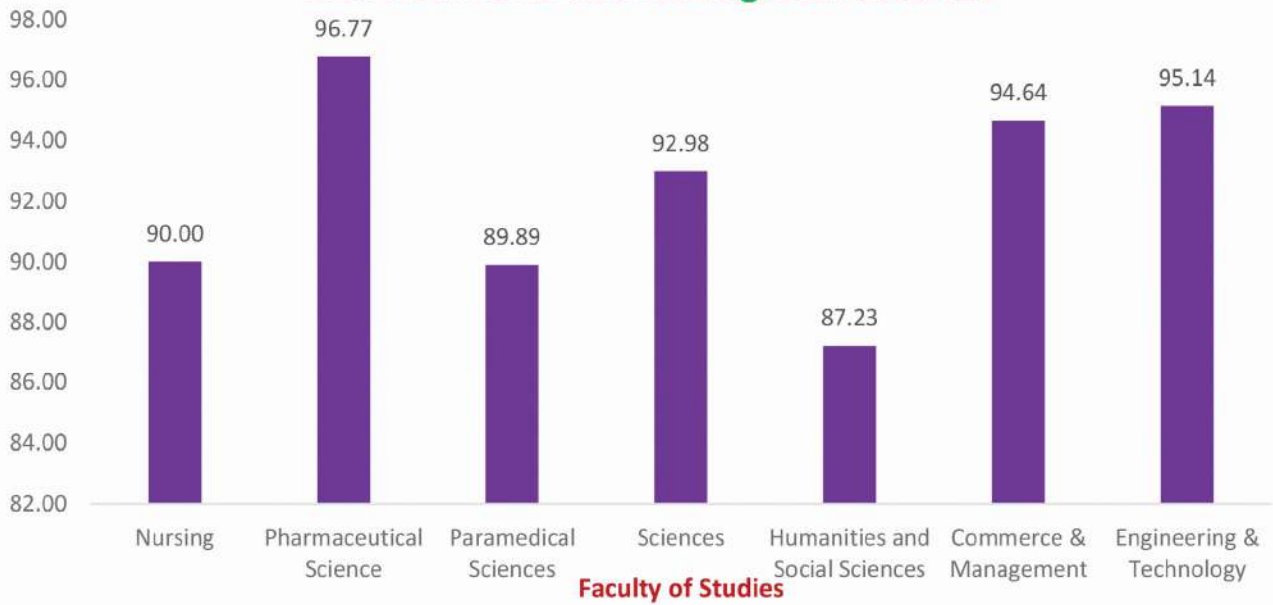
Summary of total no. of students who appeared in final semester exam, successful students of final semester exam and the total no. of students who graduated in 2022-23



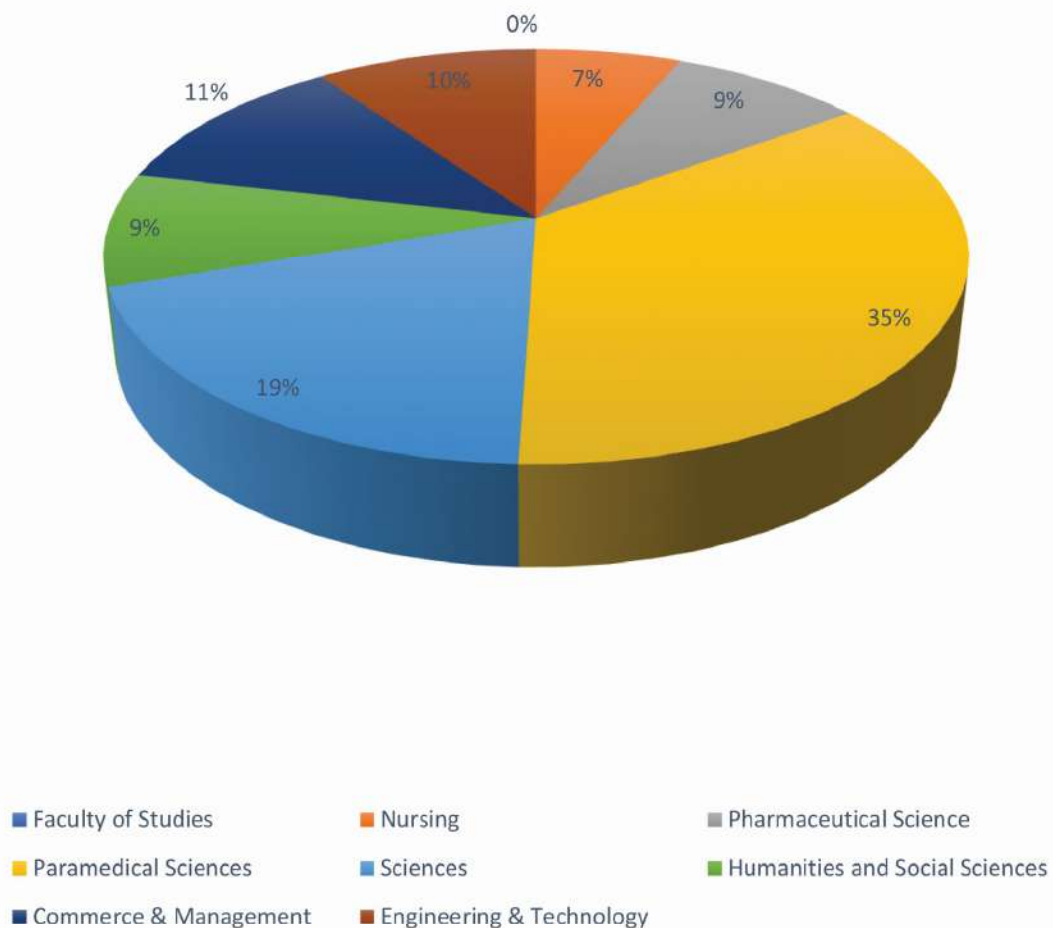
Faculty wise Ph.D degree holder who were convocated in 2023



Percentage of Students out of total enrolled who appeared in final exam and received degree in 2022-23



Faculty wise distribution of final degree recipients students in 2022-23



AdtU's 10th Convocation Report

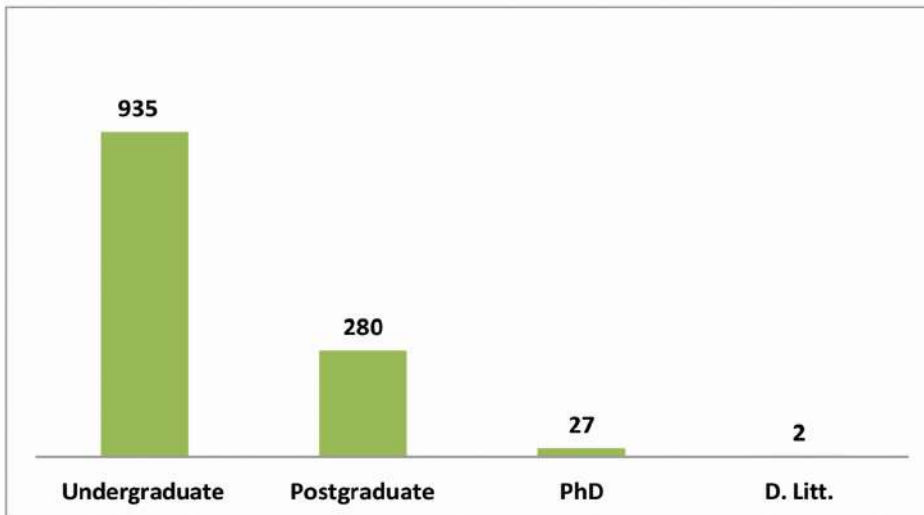


Presentation of the University report by the Vice Chancellor in the 10th convocation of AdtU

Number of PG, UG, PhDs and Honorary doctorates who were convocated in the 10th Convocation of AdtU

Faculty of Studies	No. of PGs	No. of UGs	Total
Commerce & Management	64	51	125
Engineering & Technology	0	119	119
Humanities and Social Science	54	51	105
Nursing	13	77	90
Paramedical Sciences	28	424	452
Pharmaceutical Science	13	93	106
Science	98	120	218
Total	349	1064	1215
PhDs			27
D. Litt.			2
Total Awardees in 10th Convocation 2023			1244

Programme wise distribution of different degrees awarded in the 10th convocation in 2023



Highlights of the 10th Convocation Ceremony:

Assam down town University (AdtU) held its 10th Annual Convocation on August 26, 2023. During the ceremony, a total of 1,442 degrees were awarded, including 27 PhDs. The Honorable Governor of Assam, His Excellency Gulab Chand Kataria, served as the Chief Guest for the event.

The Master of Ceremonies began with the Academic Procession, leading attendees to the Convocation Venue, where they stood for the National Anthem before taking their seats. The Pro Vice Chancellor of AdtU then invited the Honorable Governor to declare the 10th Convocation open. University representatives performed the Invocation Song (University Anthem) before the audience. The Vice Chancellor, Prof. N.C. Talukdar, presented the University Report to the Governor and all participants of the convocation.



For the 10th Convocation, the university awarded honorary Doctor of Letters (D.Litt.) degrees to two distinguished individuals: Sri Sharad Mehra and Sri Arnab Ranjan Goswami, in recognition of their exceptional contributions to education, industry, corporate sectors, and media. The Vice Chancellor introduced the recipients, and the Governor conferred the degrees upon them.



The Dean of Studies presented the Ph.D. candidates, who had been examined and found qualified, and the Governor conferred the Doctor of Philosophy degrees upon them. Deans from the respective Faculties of Studies then presented the Postgraduate and Undergraduate students to the Governor for their respective degrees, who then conferred the degree upon them. The Controller of Examinations presented the list of candidates who were then conferred degrees in absentia by the Governor.

Dr. N.N. Dutta, Chancellor of AdtU, awarded Gold Medals to the Best Postgraduate, Best Undergraduate, Best Placement Achiever, and a special AdtU Alumni Award for inspiring achievements. This was followed by the administering of the Convocation Oath of Dedication by the best among the postgraduate student who were convoked in the 10th Convocation.

Doctor of Philosophy (PhD) Awardee 2022-2023

Sl. No.	Name of Ph.D Scholar	Name of Supervisor	Registration Number	Faculty	Title of the Thesis
1.	Mr. Ranajit Kumar Bandyopadhyay	Dr. Seema Sharma Late (Dr.) Sujit Kumar Dutta	AdtU/2015/PhD/CMHSS/Mgmt/F/042	Commerce & Management	A Study on the Prospect of Sustainable Livelihood in the Fringe Villages of the Kaziranga National Park, Assam
2.	Ms. Daisy Sharma	Dr. Manash Pratim Sarma Dr. Chandana Choudhary Barua	AdtU/2018/PhD/Sci /FND/F/084	Sciences	Evaluation of Antioxidant and Antidiabetic Properties of Musa balbisiana and Development of Value Added Food Products Using Its Parts. found in Assam
3.	Ms. Nondita Phukan	Dr. Manash Pratim Kashyap Dr. Manoj Kumar Bhowal	AdtU/2014/PhD/Science/Stats/F/058	Sciences	A Study on Model Formation to Measure the Attitude of College Students Towards Statistics.
4.	Mr. Devajit Sarmah	Dr. Gunendra Chandra Das Dr. Manash Pratim Kashyap	AdtU/2015/PhD/Sci/Math/F/078	Sciences	The Impact of Technology on Teaching and Learning Mathematics: A Study of Secondary School of Guwahati City.
5.	Mr. Mrinal Sarma	Dr. Gunendra Chandra Das Dr. Manash Pratim Kashyap	AdtU/2015/PhD/Sci/Math/F/079	Sciences	Factors Affecting Teaching and Learning Mathematics at the Under Graduate Level of Kamrup (M), Assam
6.	Mr. Ram Vinod Mahato	Dr. Ananta Madhab Dutta Dr. Madhab Lamsal	AdtU/2014/PhD/Science/Biochem/F/053	Sciences	Establishment of Reference Intervals and Decision Limits (RIDLs) for Common Biochemical Parameters in Nepalese Healthy

					Adult Population.
7.	Mr. Bikash Hazarika	Dr. Kandarpa Kumar Barman	AdtU/2015/PhD/C&M/Mgmt/F/081	Commerce & Management	An Assessment of Food Security in Assam: A Case Study of Lakhimpur District.
8.	Mr. Suman Kalyan Nath	Dr. Wankupar Wankhar Dr. Asankur Sekhar Das	AdtU/2015/PhD/AHS/MLT/F/076	Paramedical Sciences	A Study on Biochemical and Haematological Profiles of The Tea Garden Workers in West Tripura District with Reference to their Nutritional Status.

Sl. No.	Name of Ph.D Scholar	Name of Supervisor	Registration Number	Faculty	Title of the Thesis
1.	Ms. Jahnabi Sarma	Dr. Papia Dutta Dr. Ananta Madhab Dutta	AdtU/2015/PhD/Sci/Chem/F/073	Sciences	Green Synthesis of Silver Nano Particles using <i>Rhynchostylis retusa</i> (L) Blume Leaf Extract and Evaluation of Antibacterial Antioxidant Properties.
2.	Ms. Santi Saya Boruah	Dr. Prateeti Barman Late Dr. Luna Devi	AdtU/2014/PhD/CMHSS/PolSe/F/051	Humanities & Social Sciences	73rd Amendment of Indian Constitution and its Impact on Panchayati Raj in India: A Case Study of Bokakhat Anchalik Panchayat of Golaghat District of Assam.
3.	Ms. Shilpi Singh	Dr. Sunandan Baruah Dr. L.P. Saikia	AdtU/2015/PhD/E&T/CSE/F/048	Engineering & Technology	Improvement in Ambiguity Detection in Requirement Engineering Documents Using Text Classification Techniques
4.	Mr. Hrishikesh Sharma	Dr. Runu Bhattacharyya	AdtU/2014/PhD/HSS/Mgmt/F/027	Commerce & Management	Feasibility of Replacing Conventional Electricity with Solar Energy: A Case Study of Higher Educational Institutions in Guwahati City, Assam.
5.	Mr. Luhit Buragohain	Dr. Samannoy Baruah	AdtU/2015/PhD/CM/M/F/68	Commerce & Management	The Historical Importance of the Capital Cities of the Ahom Dynasty and the Prospects of Developing these Cities as Tourist Attractions.
6.	Ms. Dharitri Talukdar	Dr. Sunandan Baruah Dr. L.P. Saikia	AdtU/2014/Ph.D/E&T/CS/E/F/046	Engineering & Technology	Reduction in Hacking Time by Using Five Prime Numbers in RSA Algorithm
7.	Ms. Pranami Chakravorty	Prof. (Dr.) Seema Sharma	AdtU/2018/PhD/C&M/Mgmt/F/091	Commerce & Management	A Study on the Challenges and Opportunities of the Private Sector Tour Operators of Assam A Study on Financial

					Literacy among Self-Employed Women of Guwahati City of Assam.
8.	Mrs. Roshmi Borthakur	Prof. (Dr.) Anil Kr. Goswami Dr. Nayan Talukdar	AdtU/2014/PhD/Sci/Phy/F/080	Sciences	Spectroscopic Elucidation of Crystallinity and Geometrical Structure in Natural Quartz Crystals.

Sl. No.	Name of Ph.D Scholar	Name of Supervisor	Registration Number	Faculty	Title of the Thesis
1.	Mr. Ankur Pan Saikia	Dr. Sunandan Baruah	AdtU/2019/PhD/E&T/CSE/R/031	Engineering & Technology	Design and Simulation of an Effective E-Learning Approach with the Assistance of Cloud
2.	Mr. Ruhul Amin	Dr. Faruk Alam/ Prof.(Dr.) BK Dey	AdtU/2019/PhD/PS/Pharm/R/034	Pharmaceutical Science	Pharmaceutical Care Intervention and Health Related Quality of Life(HRQoL) among the Chronic Kidney Disease Patients on Haemodialysis
3.	Ms. Maya Konwar	Dr. Prasenjit Bhagawati Dr. Manash Pratim Sarma	AdtU/2015/PhD/Sci/Botany/F/085	Sciences	Phytochemical, Biochemical and Antioxidant Properties of Selected Medicinal Plants of Assam.
4.	Mr. Bhabajyoti Saikia	Dr. Homeswar Goswami	AdtU/2018/PhD/C&M/Mgmt/F/093	Commerce & Management	A Study on History, Problems and Prospects of Marketing of Assam Tea.
5.	Mr. Ashim Barman	Dr. Bhola Chourasia	AdtU/2018/PhD/C&M/HTM/F/086	Commerce & Management	A Critical Analysis of HotelFacilities and their Impact on Customer Satisfaction Levels with Specific Reference to the Guwahati Metropolitan City.
6.	Mr. Arnabjyoti DevaSarua	Dr. Mrinal Kanti Singha	AdtU/2018/PhD/ParaSci/Radio/F/095	Paramedical Sciences	A Study on Dose Optimization for Patients Undergoing Computed Tomography Coronary Angiography with Respect to Diagnostic Reference Level.
7.	Mr. Nitul Jyoti Das	Dr. Seema Sarua	AdtU/2018/PhD/C&M/Mgmt/F/089	Commerce & Management	Role of Business Incubators in Nurturing Entrepreneurship in Assam.

8.	Ms. Nilutpala DuttaDeka	Dr. Neonjyoti Bordoloi, Dr. Md Yamin Hassan	AdtU/2015/PhD/Sci/Chem/F/072	Sciences	Studies on Chemical and Physical Effects of Effluent on Surface Soil and Surface Water around the Oil Drilling Sites in Sivsagar District, Assam.
9.	Ms. Leena Khade	Dr. Seema Sarma	AdtU/2018/PhD/C&M/Mgmt/F/087	Commerce & Management	A Case Study on Fashion Apparel Buying Behaviour of the Working Women of Guwahati City.
10.	Mr. Partha Sarathi Mahanta	Dr. Homeswar Goswami	AdtU/2016/PhD/C&M/Mgmt/F/092	Commerce & Management	A Study on Challenges and Practices for Achieving Work-Life Balance in Police Profession with Special Reference to Guwahati Police Commissionerate.

Student's Activities

The extra-curricular talents of AdtU students are nurtured by encouraging students to take part in different activities of their interest and choice. The extra-curricular activities have been organized by eight different Clubs as listed below:

AdtU Clubs

- I. Drishya Drama Club
- II. Om Yoga & Meditation Club
- III. Erudite Literary Club
- IV. Tribhanga And Zephyr Dance Clubs
- V. Dorian And Bandish Music Club
- VI. Beethika Art Club
- VII. Sports Club
- VIII. Landscape, Photography And Cine Club

1. List of major Events carried out under different Clubs

Sl. No.	Organized by	Venue	Title	Date	Event Mode	No. of Participants
1	Drishya Drama Club	Assam down town University	Skit performed on the occasion of World Environment Day	05-06-2023	Offline	45
2	YUVA Tourism Club & Department of Hospitality & Tourism Management	Assam down town University	Swachhata Pakhawada	26-09-2022	Offline	150
3	Om Yoga & Meditation Club AdtU	Assam down town University	3 days meditation session	04-04-2023	Offline	101
4	TRIBHANGA AND ZEPHYR DANCE CLUBS	Assam down town University	INTERNATIONAL DANCE DAY	29-04-2023	Offline	66
6	ERUDITE LITERARY CLUB, ADTU	Assam down town University	CHATRA DIVAS	31-03-2023	Offline	104
7	YOGA and Meditation club, AdtU	Assam down town University	International Day of Yoga	21-06-2023	Offline	46
8	Drishya Drama Club	Assam down town University	Naari ki Awaaz (Gender Equity and Sensitization)	09-03-2023	Offline	115
9	Psychological Cell and Drishyam Drama Club	Assam down town University	Skit Play on Cyber-Bullying by Psychological Cell and Drishyam Drama Club	28-09-2022	Offline	13
10	ERUDITE LITERARY CLUB (ELC), ADTU	Assam down town University	Spot Poetry Writing Competition	12-05-2023	Offline	60
11	ERUDITE LITERARY CLUB, ADTU	Assam down town University	Wall Magazine Competition	13-05-2023	Offline	543

2. Photo gallery highlighting important activities carried out by student members of different clubs



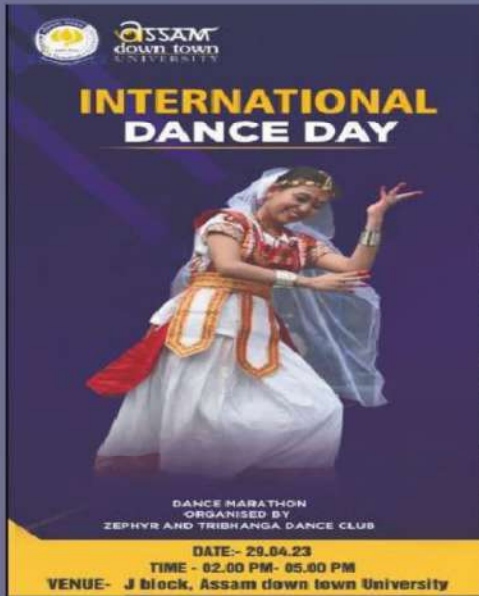
Skit performed on the occasion of World Environment Day



Swachhata Pakhawada



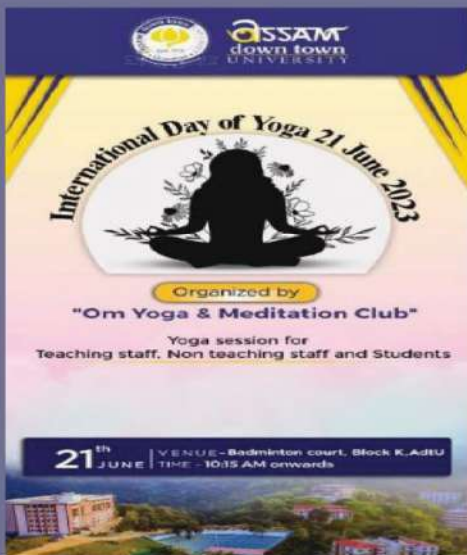
Three days meditation session inside AdtU campus organized by Yoga Club



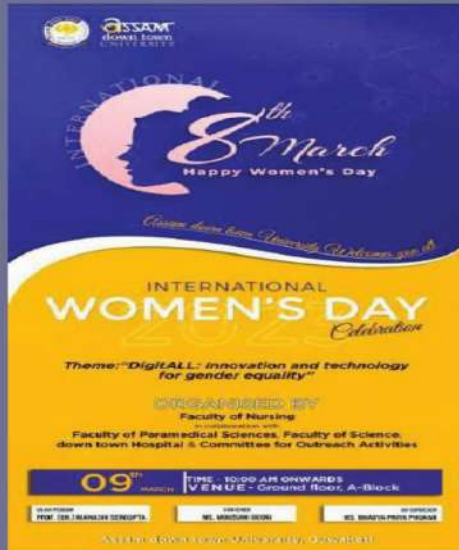
International Dance Day celebration



Edulite Literary Club organized a vibrant debate competition



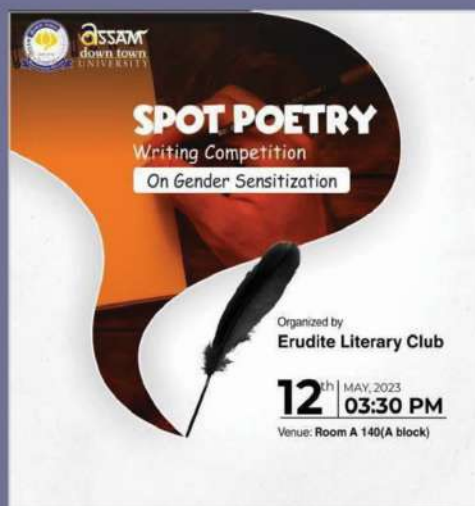
International Day of Yoga



Naari ki Awaaz- a short drama by AdtU drama club to Sensitize Gender Equity



Skit Play to build awareness about Cyber-Crime



Spot Poetry Writing Competition in AdtU Campus

WALL mAgAZiWe
COMPETITION
(AMONG ALL THE FACULTY OF STUDIES)

ORGANISED BY
ERUDITE LITERARY CLUB

- Each Faculty of Study will present one Wall-Magazine
- Display Board will be provided by the University

WALL MAGAZINE BOARD SIZE - 6X4 FT

Date : **13th May**
Venue : **Ground Floor, A block, AdtU**

Assam down town University

Khankar Gaon, Assam, India
panikhaiti rail gate, near assam down town university, Khankar Gaon, Assam 781026, India
Lat 26.202058°
Long 91.86149°
13/05/23 12:17 PM GMT +05:30

Wall Magazine Competition organized by ELC

Sports



Volleyball Tournament organized in AdtU playground by Sports Club



Football Tournament organized in AdtU by Sports Club



NEMCARE GROUP PREMIER LEAGUE
CRICKET CHAMPIONSHIP

NGPL 2022
SEASON 04

1st - 3rd March
2022

Venue:
NGI Playground
Mirza, Kamrup, Assam



FOR PARTICIPATION AND INFO CONTACT
+91-7002243950 (Mr. Koushik N. Dutta). +91-7002769750 (Mr. Sameeran Gam)

A Cricket Premier League match outside campus participated by AdtU Sports Club members

3rd HR-Conclave and 8th JOB-FAIR of AdtU

In the 3rd HR-Conclave and 8th JOB-FAIR, there were >100 companies, who participated in the 8th Job Fair and interacted with students. Besides AdtU students, there were large number of job aspirants from other institutes of Guwahati who participated in the job fair and some of them got placed. It is very satisfying to see job seeker who was graduates from other academic institutions use AdtU's job fair platform. The 8th Job fair was provided by the 4th Human Resource Conclave of AdtU held on September, 2023 in the Taj Vivanta Hotel. There were ~100 participants and a number of distinguished personalities took part in the 4 seasons of the conclave.

Reputed companies who took part in the AdtU's 8th Job fair



Some proud students among many, who secured their job through the University driven 8th job fair of 2022-23



Anil Kumar Thakur
(MBA) in JUST DIAL



Sangram Sarma
(BBA) in JUST DIAL



Tana Nachup (MBA)
in JUST DIAL



Yeasmine Sultana
Laskar (BBA) in JUST
DIAL



Yumnam Sagar Singh
(BBA) in JUST DIAL



Palash Jyoti
Phukan (BBA) in JUST
DIAL



Muzibur rahman
(BBA) in JUST DIAL



Pranoy Singha (ECE)
in MPHASIS



Gavin Babinal
(B. TECH CT & IS) in
MPHASIS



Mahidul Islam
(B. TECH CT & IS) in
MPHASIS



Prashant Chapagai
(BBA) in MPHASIS



Bikash Debnath
(MBA) in MPHASIS



Dr Dimpy Pathak Das
(MBA) in RRC NE



Deekhya Sonowal (B
Pharm) placed in
Ajanta Pharma



Ram Kashyap
Bhuyan (B.Pharm)
got placed in Ajanta
Pharma



Ashique Iftikar Khan
(B.Pharm) got placed
in Byju's



Rohan Prasad (B
Tech Mechanical)
got placed in Byju's



Sankar Pratim Baruah
(BBA) got placed in
Byju's



Nyari Gadi (MBA) in
Bata



Chinmoyee Saikia
(MBA) in Bata



Priyanka Paul (BPT) in
Manipal
Hospital, Bengaluru



Natasha Verma (BPT)
in Apollo Hospital,
Bengaluru



Santanu Sonowal
(BMLT) in DDU-GKY



Rohan Gurung (BHM)
in The Leela Palace,
Udaipur



Hrishikesh Daskalita
(BHM) in The Leela
Palace, Udaipur



Kailash Roy (BHM) in
The Leela Palace,
Udaipur



Neema Tamang
(BHM) in Westin
Hotels & Resorts



Prasanna Saikia
(BHM) in Westin
Hotels & Resorts



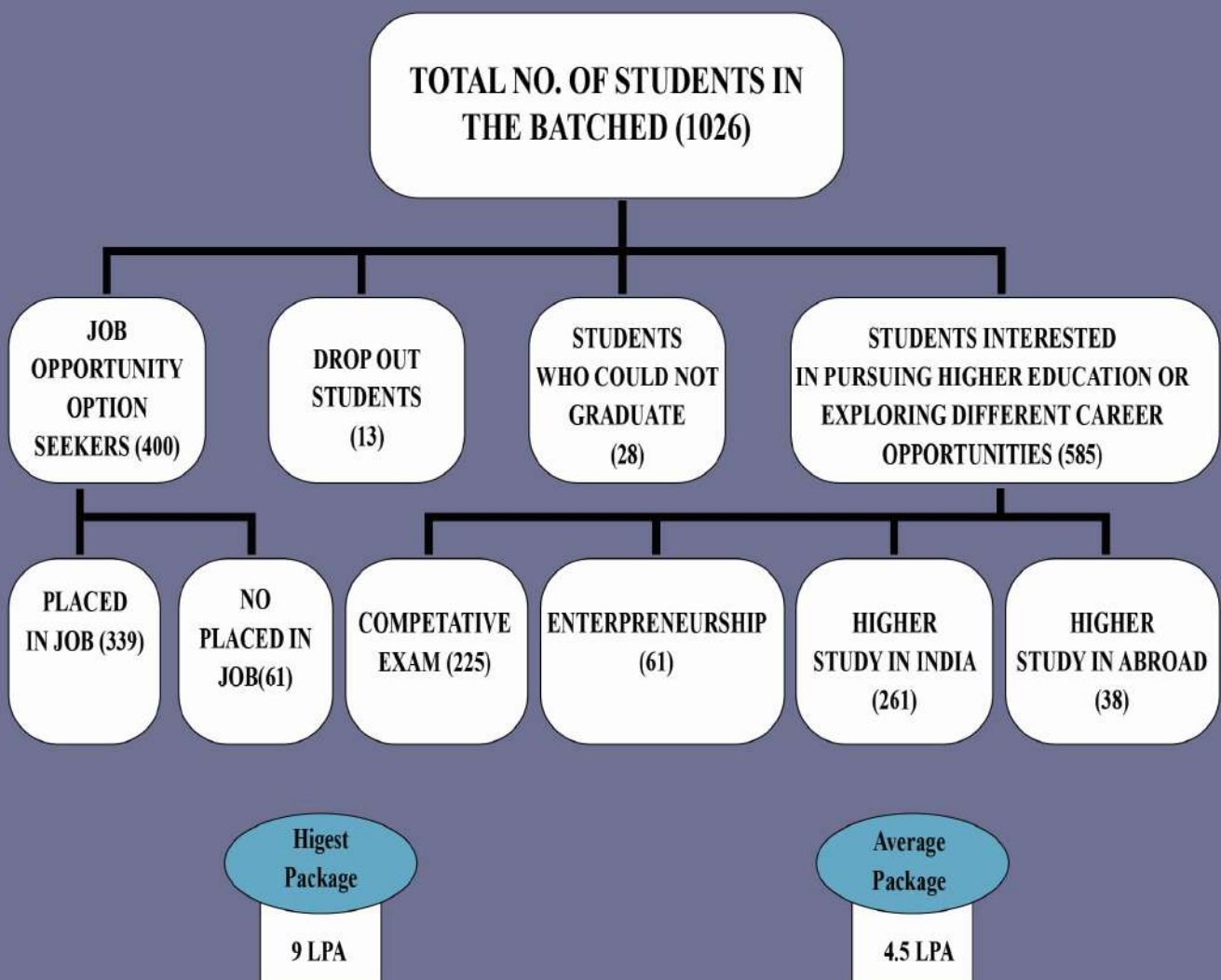
Manu Megar (BHM) in
Westin Hotels &
Resorts



Gita Pun (BHM) in
Westin Hotels &
Resorts

Activities of Directorate of Career Advancement (DoCA), 2022-23 of AdtU

The Directorate of Career Advancement (DoCA) provides career counseling to students from day 1 of a student joining AdtU's academic programme. It organizes workshops/seminars one to one and group session for students with internal and external experts. The main task of the DoCA officials is to segregate students based on their interest for job after graduation, ambition of higher studies and entrepreneurial pursuit. Separate approach, training and consulting are tailored as per the requirement for each category of concerned aspirant. For the academic session 2022-23, 400 graduates out of 945 appeared for job interviews out of which 339 graduates got job with salary package in the range of 4.5 – 9 LPA. Remaining 585 sought for different options which include entrepreneurship, higher-studies, and competitive examinations.



AdtU graduates of 2022-2023, who have secured admission into foreign universities through DOCA's mentorship

Sugandha Kashyap completed B.A. from Faculty of Humanities & Social Science admitted into University of York, Heslington, UK for Master's Cognitive Neuroscience program.



Sekhar Kumar Das completed his bachelor from the Faculty of Engineering and received chance of admission into International University, Berlin, Germany for his Master's degree in International Management.



Gargi Boruah completed her bachelor from the Faculty of Commerce and Management and admitted into Manipal Academy, Dubai for her Master's degree in International Business.

Akanksha G. Chhetri completed her bachelor from the Faculty of Commerce and Management and admitted into Manipal Academy, Dubai for her Master's degree in International Business.



AdtU graduates of 2022-2023, who have secured admission into Indian universities by clearing national level examinations

A YEPEKA URU from the Faculty of Engineering & Technology

Admitted to Institute Name: IIM Indore

Course Name: PGDM



AdtU's students earn stellar ranks in GAT-B Exam

AIR (All Indian Rank)



Cheenuma Sharma
B. Sc Biotechnology
Rank 40



Arnold Basumatary
B. Sc Biotechnology
Rank 110



Himashee Bharadwaze
B. Sc Microbiology
Rank 65

Category Rank



Dodere Islary
B. Sc Biotechnology
Rank 57



Akash Das
B. Sc Biotechnology
Rank 13

Qualified GPAT 2023



Bishnu Borah



Anisha Saikia



Neinimanbha Suna



Naphisabet Wankhar



Badonkumar Lyngdoh


Faculty of Pharmaceutical Science

Activities of Directorate of International Affairs (DIA) of AdtU

The International Affairs of AdtU include collaboration in academics and research with foreign universities/institutions, foreign students mobilization and their administration inside AdtU campus. To foster collaborations, AdtU has signed several MoU's with foreign universities and carried out several activities including students and faculty exchange programmes. AdtU also initiated collaborative research with foreign universities. Some of the activities are listed below along with pictures of events.



The office of the International Affairs of AdtU

Activity	Representative photos
<p>From November 7th to 12th, 2022, Assam Down town University (AdtU) hosted a student exchange program with Daffodil International University, Dhaka, Bangladesh, as part of Memorandum of Understanding signed between the two institutions. During the visit, students attended classes with AdtU students on various topics taught by Pharmacology faculty of AdtU. They also engaged in interactive sessions with AdtU faculty and as part of the exchange programme agenda. This exchange program enriched their academic experience and strengthened cross-institutional academic relationships.</p>	 <p>Kamrup Metropolitan, AS, India Chandrapur, Kamrup Metropolitan Lat: 26.201976, Long: 91.862109 11/07/2022 12:10 PM</p>

From November 7th to 12th, 2022, AdtU hosted a faculty exchange program with Daffodil International University, Dhaka, Bangladesh, within the provision of activities under Memorandum of Understanding. Two faculty members participated in this academic exchange within the Faculty of Pharmaceutical Sciences. During their visit, they delivered guest lectures on Pharmaceutical Analysis and Drug Delivery Systems and attended specialized sessions on advancements in Medicinal Chemistry and Biotechnology to AdtU students. Their exchange facilitated valuable interactions with AdtU's faculty and students, fostering collaborative discussions and enhancing knowledge-sharing.



Assam Down town University (AdtU) hosted a student exchange program from 20-26 November, 2022, within the Faculty of Computer Science and Engineering, under the Memorandum of Understanding with Daffodil International University, Dhaka, Bangladesh. Four students participated in this enriching academic exchange. During the program, they attended classes on key topics such as Artificial Intelligence, Data Structures, and Software Engineering taught by FoCT faculty members. The students also interacted with AdtU's faculty and peers, engaging in collaborative projects and discussions that broadened their understanding of the subject. The week-long program concluded with a certificate distribution ceremony.



From July 9 to 15, 2023, Mr. Manimughdha Medhi participated in a Faculty Exchange Program at **UKRIDA, Indonesia**, aimed at fostering academic collaboration between the Faculty of Humanities and Social Science at Assam Down town University (AdtU) and UKRIDA. During the program, he delivered lectures to UKTIDA students and also attended workshops and collaborative sessions, focusing on various aspects of humanities and social sciences. This exchange facilitated the sharing of innovative teaching methods and research approaches, offering valuable insights into UKRIDA's academic environment.



From February 12 to 18, 2023, two faculty members from the Faculty of Physiotherapy and Paramedical of AdtU participated in a faculty exchange program at INTI International University, Malaysia. During their visit, they engaged in workshops and seminars on advanced techniques in physiotherapy and paramedical sciences and delivered lectures for the benefit of students of INTI International university. This exchange provided valuable insights into the latest developments in the field and facilitated the sharing of knowledge with peers at INTI International University. The program led to the adoption of innovative teaching methods at AdtU, including case-based and experiential learning, and the integration of technology into the curriculum.



From March 13 to 20, 2023, two faculty members from the Faculty of Nursing of AdtU participated in a faculty exchange program hosted by Jashore University of Science and Technology, (JUST) Bangladesh. During their visit, they attended seminars and workshops on advanced nursing practices and healthcare innovations, and delivered lectures on their specialized topics for the benefit of students of JUST. The program provided valuable insights into the latest developments in nursing education and practice, facilitated meaningful interactions with faculty and students at Jashore University, and explored potential for conducting joint research.



On December 14, 2022, **Assam Down town University (AdtU)** and **Manmohan Technical University, Nepal**, formalized their partnership with the signing of a Memorandum of Understanding (MoU) at the AdtU campus. The MoU signed by the Vice Chancellor of AdtU and delegates from Manmohan Technical University, established a framework for academic collaboration, research initiatives, and exchange programs. The agreement focused for engagement on technology, engineering, and innovation. The signing ceremony was attended by faculty members and administrative officials from both institutions, who expressed their enthusiasm for the collaborative opportunities the MoU will bring.



Activities of the Directorate of Alumni Affairs (DoAA) of AdtU

The directorates of Alumni affairs of AdtU made significant stride during the academic year 2022-23. The alumni members drive reached a monumentum. AdtU alumni are serving in different institute of India and a sizeable number in foreign countries. The activities are listed below:

1. AdtU alumni meet in Dhaka, Bangladesh and different cities of India. The alumni meets were organized in Delhi, Bangalore, Agartala, and Dhaka. The alumni participation in these meets was in the range of 14 to 40.
2. Lecture session for AdtU students with AdtU's alumni.



Mr. Amit Sharma,
Assistant Professor, HoD in
charge, Radiology, NEPNI
group of Institute.
B.Sc. AIT (2013- 2016)



Ms. Barsha Das,
Associate Manager HR,
HDFC Life Batch:
MBA (2020- 2022)



Mr. Joydeep
Kalita, Executive, Quality
Department Health City
Hospital Batch:
MBA (2019-2021)



Ms. Shiny Ahmed,
JRF, National Institute of
Pharmaceutical Education
and Research (NIPER),
B.Pharm (2019- 2022)



Mr. Hemanta Ta-
lukdar, Pharmacist, Dr. B.
Borooah Cancer Institute,
Dept of Atomic Energy, Govt
of India, Guwahati, B.pharm
(2010-14)



Ms Joyeeta Kar,
Currently a Doctoral
Student in Medical Sciences,
University of Tsukuba,
Tsukuba, Japan, M.Sc. Bio-
technology (2016– 2018).



Mr. Himangsh Saikia,
Area Sales Manager, Mankind
Pharmaceutical
Limited, Organ
Transplant Division Batch:
B.Pharm (2012- 2016 Batch)



Ms. Pallabi Boruah,
Assistant Professor,
Dr. B.Borooah
Cancer Institute, Guwahati
Batch: BSc. Nursing (2009-
2013 Batch)



Mr. Sanjib Norola Chetry
Senior Manager, Kotak Mahindra
Bank Ltd., Bangalore
Batch: MBA (2011-2013)



Dr. Dimpy Pathak Das External
Consultant at Regional Resource
Centre for NE States in New Delhi
under the Ministry of Health and
Family Welfare, GOI Batch: MBA
Healthcare Management
(2018- 2020)



Mr. Siddharth Das
Batch: B. Tech in Computer
Science and Engineering
Got highest placement offers
during (2019-20)



Mr. Basab Kumar Bhattacharya,
ISAR Accredited Embryologist,
KMC, Manipal
Batch: M.Sc. Biochemistry
(2013 –15)

AdtU Alumni meet abroad and in India

SL. No.	Alumni Meet	Venue	Title of Event Plan	Date	Mode	No. of Participants
1	International	Dhaka	AdtU Alumni Meet-Dhaka, Bangladesh 2023	04-08-2023	Offline	14
2	National	New Delhi	AdtU Alumni Meet - Delhi Chapter 2022	10-12-2022	Offline	14
3	National	Bangalore	AdtU Alumni Meet Bangalore Chapter 2022	03-09-2022	Offline	24
4	National	Agartala	AdtU Alumni Meet-Agartala Chapter 2023	11-06-2023	Offline	40

AdtU Alumni lectures organized both in Physical & Online Mode

SL. No.	Lecture Series	Venue	Title of Talk	Date	Mode	No. of Participants
A	National	-	Higher Education in Japan : Do's and Don'ts for an International Aspirant	24-05-2023	Online	48
B	National	-	Pharmaceutical Production And Marketing in the New Age	12-04-2023	Online	65
C	National	-	Radiology : the Risk vs Benefits	16-12-2022	Online	84
D	Regional	AdtU, Guwahati	AdtU Alumni Meet-Reconnect and Rejoice	24-02-2023	Online	83
E	Regional	-	Career Opportunities for Oncology Nurses•	26-11-2022	Online	80
F	Regional	AdtU Guwahati	Career Avenue of an Embryologist - The Backbone of IVF	10-11-2022	Offline	118

Gallery: Alumni Affairs

 **ASSAM**
down town
UNIVERSITY
NAAC Accredited & 12 B Status from UGC

AdtU
alumni
ASSOCIATION

alumni Meet

Dhaka, Bangladesh

CHAPTER 2023

Organized by:
AdtU Alumni Association

04th August 2023
07:00 PM Onwards

For Participation Contact
+880 17860 32877
+91 9577692254

Venue: Hotel Shuktara, Indira Road, Farmgate, Dhaka



AdtU Alumni Meet- Dhaka, Bangladesh 2023

 **ASSAM**
down town
UNIVERSITY

AdtU
alumni
ASSOCIATION

alumni Meet

AGARTALA

CHAPTER 2023

Organized by:
AdtU Alumni Association

11th June 2023
11:00 AM Onwards

For Participation Contact
+91 95776 92254
+91 94350 49501

Venue: Hotel Rimi International, Mathchowmuhani, Jail Road, Agartala, Tripura (W) - Pin -799001



AdtU Alumni Meet- Agartala Chapter 2023



WEBINAR ON
Higher Education in Japan:
 Do's and Don'ts for an International Aspirant

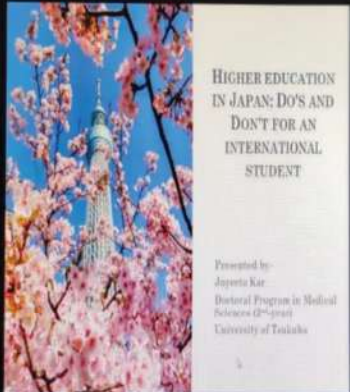
ORGANISED BY
 Assam down town University Alumni Association

24 MAY 2023
 03:00 PM

SPEAKER
Ms. Joyeeta Kar
 AdIU Alumni
 M.Sc Biotechnology
 2016-18 Batch
 Faculty of Science, Assam down town University
 Currently a Doctoral Student in Medical Science
 Lab of Professor Kawaguchi Atsushi,
 University of Tsukuba Tsukuba, Japan

SCAN HERE TO JOIN


Joyeeta Kar is presenting



Presented by:
 Joyeeta Kar
 Doctoral Program in Medical
 Sciences (Ph.D.)
 University of Tsukuba

Joyeeta Kar
 50 others

18:24 | gmf-claid-kaz
 REDMI NOTE 7 PRO

Higher Education in Japan: Do's and Don'ts for an International Aspirant



Webinar on:
**Pharmaceutical Production and
 Marketing in the New Age**

12th APRIL
 1:00 to 2:00 PM onwards

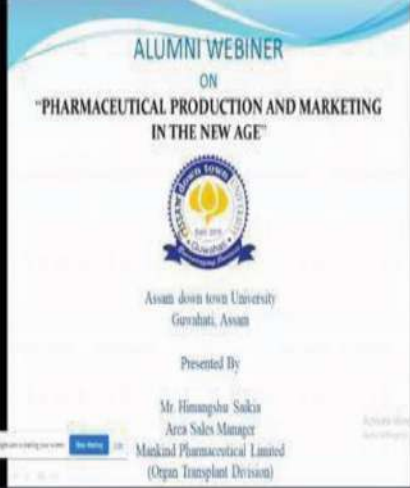
Organised by
 Assam down town University Alumni Association

SPEAKER
Himangshu Saikia
 Alumni from Pharmaceutical Sciences,
 2012-2016 batch, B.Pharm

Presently working as -Area Sales Manager
 Mankind Pharmaceutical Limited
 Organ Transplant Division


 Link: <https://bit.ly/3KGqAMg>

Himangshu Saikia is presenting



Assam down town University
 Gauhati, Assam

Presented By
 Mr Himangshu Saikia
 Area Sales Manager
 Mankind Pharmaceutical Limited
 (Organ Transplant Division)

Himangshu Saikia
 19 others

Alumni Talk (Pharmacy)

Pharmaceutical Production and Marketing in the New Age



Assam
down town
UNIVERSITY

Welcomes you all to

ALUMNI MEET

RECONNECT & REJOICE

Organized by: AdtU Alumni Association

24th | 2023, Friday
FEB | **11:00 AM**

Venue: Auditorium 6th Floor, A Block,
Assam down town University



AdtU Alumni Meet- Reconnect and Rejoice



Assam
down town
UNIVERSITY



AdtU
alumni
ASSOCIATION

An Alumni Talk on

Radiology the Risk vs Benefits

FRIDAY 3:00 PM
16th Dec, 2022

PLATFORM  Google Meet



Scan here to join

Organized by
AdtU Alumni Association
Co-ordination Committee

www.adtu.in

SPEAKER



Mr. Amit Sharma
Assistant Professor, Radiology,
NEPNI Group of Institute,
An Alumnus of AdtU
Msc. Radio Imaging Technology
(Bsc AIT Batch 2013-16)

DOSE LIMITS FOR WORKER

Whole Body (everything except extremities) **150 mSv**

30 mSv maximum per-year
20 mSv averaged over 5 years

Skin of the Whole Body
500 mSv per year

Extremities
500 mSv per year

Radiology: the Risk vs. Benefits



Alumni Meet New Delhi CHAPTER 2022

Organized by:
AdtU Alumni Association

10th Dec 2022

5:30 PM to 8:00 PM

Contact:
+91 95776 92254
+91 94350 49501

Venue: Hotel Metro View, 17A/3, W.E.A. Karol Bagh, New Delhi



AdtU Alumni Meet - Delhi Chapter 2022



Organized by
Alumni Association
Assam down town University



Webinar on
Beyond the Bedside: "Career
Opportunities for Oncology
Nurses."

SPEAKER

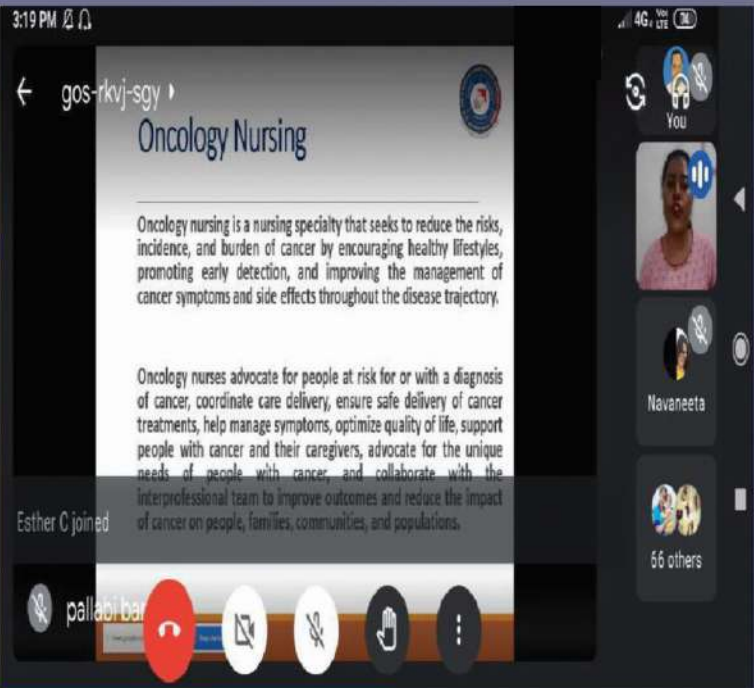


Ms. Pallabi Boruah
(Alumni from Nursing, 2009 to 2013 batch B.Sc Nursing)
Assistant Professor (Nursing)
Dr. B. Borooah Cancer Institute, Guwahati



26th Nov, 2022
03:00 to 4:00 PM

PLATFORM : Google Meet
Link: <https://bit.ly/3GNDx5h>



Career Opportunities for Oncology Nurses




ALUMNI TALK

ON CAREER AVENUE OF AN EMBRYOLOGIST-THE BACKBONE OF IVF



Mr. Basab Kumar Bhattacharya
 SAR Accredited Embryologist, XMC, Manipal
 M.Sc. (Biotechnology, 2013-15 Batch)

SPEAKER

Jointly Organised By
 FACULTY OF SCIENCE &
 ADTU ALUMNI ASSOCIATION

10th NOVEMBER, 2022
 (02:30 PM to 04:00 PM)

AUDITORIUM-1
 Above Zirconee, BLOCK: C



Career Avenue of an Embryologist - The Backbone of IVF



alumni Meet

BANGALURU

CHAPTER 2022

3rd Sept 2022
5: 30 AM to 8:30 PM

Venue: Nandhana Palace Koramangala, Bengaluru



AdtU Alumni Meet Bangalore Chapter 2022

Research and Innovation



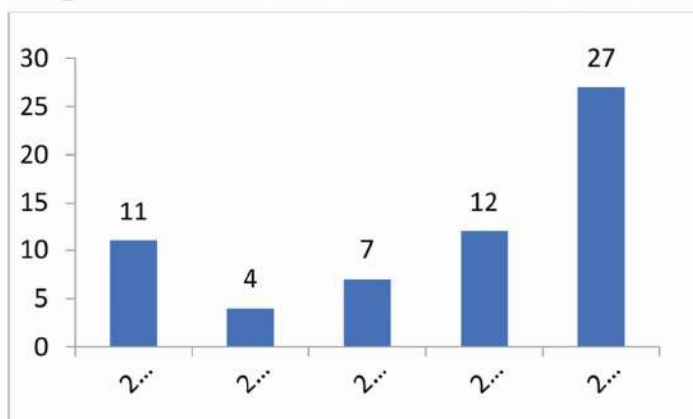
The Research of AdtU is organized and administrated by the Directorate of Research (DoR) and innovation, start-up, and entrepreneurship activities are administrated by Directorate of Innovation startup and Acceleration (DISA). The output of research and innovation are:

1. Fulltime research scholars PhD programme introduced. Some of these research scholars are recipients of JRF under UGC-CSIR, DBT-JRF, Inspire fellowship, etc.
2. Junior research fellows who are the manpower under externally funded project, registered for PhD degree
3. AdtU financial support for research scholars to carry out PhD research
4. In-service employee or part time research scholars' scheme in operation

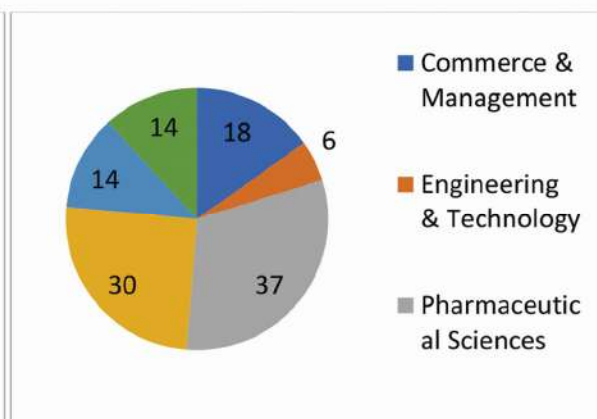
Currently, seven faculties of studies offer PhD degree and these are listed below:

- A. Faculty of Pharmaceutical Science
- B. Faculty of Humanities and Social Sciences
- C. Faculty of Commerce and Management
- D. Faculty of Science
- E. Faculty of Paramedical Sciences
- F. Faculty of Computer Technology
- G. Faculty of Engineering

The Research of AdtU is organized and administrated by the Directorate of Research (DoR) and innovation, start-up, and entrepreneurship activities are administrated by Directorate of Innovation startup and Acceleration (DISA). The output of research and innovation are:



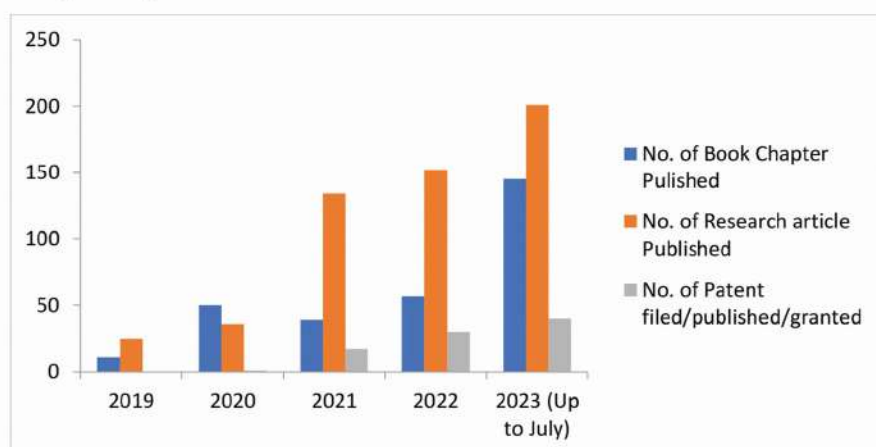
Year wise data of PhD degree awarded



Number of research scholars in different faculties of studies who are in different stages of their PhD thesis research

Research Output in terms of Publication and Patents:

The publications and patents of AdtU for the academic session 2022-23 is presented in figure below. Comparison of publications and patents over the last five years show that all the parameters peaked during 2022-23. The figure also illustrate gradual rise in these parameters in every subsequent year. Many of these papers are published in high impact factor journal and the average impact factor of all published articles was in the range of 0.1 to 10, suggesting a significant improvement in research and publication quality of AdtU.



Number of book chapters, research articles, and patents published over five academic sessions with AdtU affiliation

Research Funding Opportunities at AdtU

Government-Funded Projects

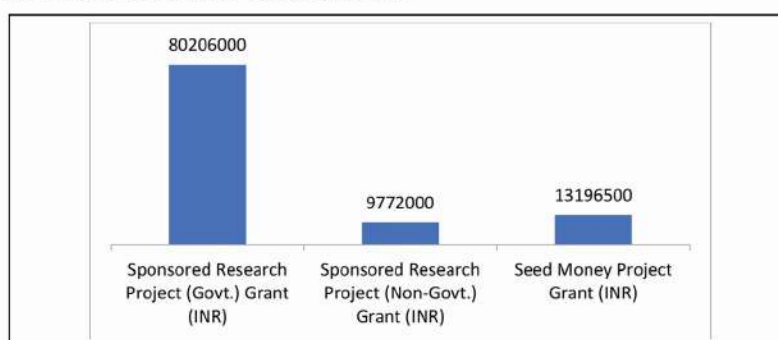
AdtU's faculty members have demonstrated exceptional success in securing research grants from various government agencies, reflecting their competitiveness and research excellence. During the 2022-23 periods, four major government-funded projects were rewarded by AdtU, showcasing the university's ability to attract substantial financial support for its research endeavors.

Seed Grant for Research

At AdtU, faculty members have access to various types of research grant support, including a substantial seed grant program. Twice a year, there is call for proposals, during which faculty members submit their projects. These proposals are reviewed by a committee, which scrutinizes each one carefully. Faculty members whose proposals are selected are then invited to present their projects. If their presentation meets the criteria, the University awards them a seed grant for a specified period. This entire process is managed by the Directorate of Research. This seed grant program for faculty for research operate in competitive manner and entire process of applications, short listing, review and presentation at university level is administered digitally similar to the lprocess followed by national funding agency at national level.

Non-Government-Funded Projects

In addition to government support, AdtU's faculty members have excelled in obtaining research grants from non-governmental organizations. The competitive nature of these grants highlights the faculty's expertise and the high regard in which their research is held. For the 2022-23 periods, several non-government-funded projects were received, further underscoring the university's success in attracting diverse funding sources for its research initiatives.



Sponsored Research Project Grant (in INR) received during 2022-2023

The list of New Sponsored Research Project sanctioned from various government funding agencies during 2022-23:

Name of the Project/ Clinical Trial/ Endowment/ Chairs	Name of the Principal Investigator /Co Investigator	Name of the Funding agency	Type (Government/Non-Government etc.,)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in Lakhs)	Duration of the project
Socio-Economic Development of ST Communities through Hydro-Electric and Solar Power Generation, Integrated Farming and Mushroom Production.	Prof. Sunandan Baruah (PI) Dr. Rajeev Sarmah (PI)	DST	Government	Faculty of Engineering, Science, Pharmaceutical Science, Commerce & Management	2022-2023	276.43	3 years
Strengthening ST community of Anini, Arunachal Pradesh by empowering knowledge and skills for socioeconomic development and sustainable Livelihood.	Dr. Rajeev Sarmah (PI)	DST	Government	Faculty of Sciences	2022-2023	125.63	3 years
Assessment of Level of Knowledge and Awareness of Family Planning Practices among the Mising Communities of Assam	Dr. Bijoy Das (PI) and Mr. Rajgun Handique	Govt. of Assam	Government	Faculty of Humanities and Social Sciences	2022-2023	400.00	2 years

**Ongoing Sponsored Projects from different funding agencies:
The details of externally funded research projects are given below:**

Name of theProject	Project Coordinator	Project Duration (in months)	Total Amount Sanctioned in Rupees (in Lakhs)	Date of Sanctioning the grant	Name of the Funding Agency
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	Dr. Rajeev Sarmah (PI) Dr. Minakshi Bhattacharjee (Co-PI)	36	14.352	01.03.2021	DBT
Development of ananotechnology based system for estimating and monitoring pesticide level in tea leaves	Prof. Sunandan Baruah (PI) Arnab Kr. Sarkar and Baharul Islam(Co-PI)	24	5.568	29.07.2021	ASTEC
Utilization of soiland plant microbial resources for enhancing the productivity of cropping systemsand soil health under jhum and terrace/valley agro ecosystem ofEastern and North-western Indian Himalayas	Dr. Laishram Shantikumar Singh	36	32.0612	12.03.2022	DBT
Development ofMultifunctionalSeed sowing Machine for Agricultural Purpose	Pulakesh Chetia (PI) Manash Jyoti Borah (Co-PI)	24	3.28	12.05.2022	ASTEC
Understanding the fluxes of microplastics inthe coastal Ecosystems of major rivers in India	Dr. Kanu Shill	36	2.6	24.06.2022	DST
Strengthening STcommunity of Anini, ArunachalPradesh by empowering knowledge and skills for socioeconomic development and sustainable Livelihood	Dr. Rajeev Sarmah	36	125.63	19.09.2022	DST
Socio-Economic Development of ST Communitiesthrough Hydro- Electric and SolarPower Generation, Integrated Farming and Mushroom Production	Prof. Sunandan Baruah (PI) Dr. Rajeev Sarmah (PI)	36	276.43	28.12.2022	DST
Garcinia Sp. Ethnobotany: Phytochemicals and Antidiabehtic Activity	Dr. Partha Pratim Dutta, Dr. Mohd Shazrul Sa'ariwijaya Dr. Farah Faiqah Binti Faizal Dr. Doulas Law		1.00		INTI International University, Nilai, Malaysia

The research activities of the above project as per work plan are going on smoothly and the first year progress report of some of these projects submitted to the respective funding agencies.

List of Extramural Projects sponsored by government funding agencies and completed during the year.

Sl. No.	Name of the Project	Project Coordinator	Project Duration (in months)	Total Amount Sanctioned in Rupees (in Lakhs)	Date of Sanctioning the grant	Name of the Funding Agency
1	Chemical profiling of Joha and black rice of NER for Nutritional, Nutraceutical Parameters and Aromatic Compounds	Dr. Saikat Sen (PI) Dr. Raja Chakraborty (Co-PI)	36	68.82	19.10.2016	DBT
2	Foldscope a Tool for evaluation of Genotoxic Effect of Food Preservatives: A Model Experiment for students of life Science	Dr Jyotchna Gogoi (PI) Dr Papia Dutta (Co-PI)	12	8.0	20.03.2018	DBT
3	Design and Fabrication of a portable friction stir welding machine	Mr. Manash Jyoti Borah	24	4.048	18.09.2018	ASTEC
4	Characterization of high value phytochemicals of anti-diabetic and immunomodulatory properties in North Eastern banana varieties	Dr. Ananya Kashyap (PI) Daisy Sharma (Co-PI)	36	29.97	22.03.2018	DBT

Seed Money Funded Projects:

In the year 2017, AdtU took a policy decision to promote the culture of research among the faculty members of AdtU. Accordingly, it was decided to implement a seed money funded project fund policy on competitive basis. Under this scheme, 41 seed money projects were granted on competitive basis during the year following standard SOP. The grant value of these projects ranged from Rs. 1.2 to 5.0 lakhs and > 80% of this projects cost was Rs. 3.0 lakhs or more. The lists of the seed grant projects sanctioned during the session 2022-23 are listed below.

Sl. No.	Name of the project	Duration of the project	Name(s) of the teacher(s) working in the project receiving seed money	The amount of seed money provided (INR in lakhs)	Year of receiving the seed money
1	Transmucosal Drug Delivery Systems (Tmddss) For Efficient Delivery And Enhanced Bioavailability Of Antihypertensive Drug: Design, Development, In-Vitro And In-Vivo	2 Years	Dr. Kumara Swamy Samanthula	3.00	2022-23
2	Plant-Assisted Synthesis Of Nanomaterials For Diabetic Wound Healing: Design, Fabrication, And Therapeutic Evaluation	2 Years	Mr. Jyotimoy Bhattacharyya	3.00	2022-23
3	Structural Identification And Characterization Of The Degraded Products From Anti- Cancer Agents By Hplc	2 Years	Dr. Rinchi Bora	3.00	2022-23

Sl. No.	Name of the project	Duration of the project	Name(s) of the teacher(s) working in the project receiving seed money	The amount of seed money provided (INR in lakhs)	Year of receiving the seed money
4	Pharmacological Exploration Of Antipcos Properties Of Selected Medicinal Plants From Northeast India In Experimentally Obese Animals And Developing An Ai- Based Prediction Tool	2 Years	Dr. Manash Pratim Pathak	5.00	2022-23
5	Exploration Of Immune-Regulation Pathways And Wound Healing Effects In Clerodendrum Colebrookianum Walp Treated Diabetic Rats	2 Years	Dr. Manish Kumar Gautam,	3.00	2022-23
6	In-Vitro Efficacy Studies Of "Digestive Mix" From Minor Fruit Formulation	2 Years	Dr. Radali Duarah	3.00	2022-23
7	To Study The Diversity In Carcinogenic Chemical Distribution of Raw/Fermented Betel Nuts From Different Location of Assam, India And Effect on Female Cancer Development	2 Years	Dr. Suman Kumar Samanta	5.00	2022-23
8	Exploitation Of Intra- Cellular Lipid Transport Machinery As Novel Drug Target Against Entamoeba Histolytica	2 Years	Dr. Koushik Das	5.00	2022-23
9	A Study On The Ancient Music Tradition of Assam 'Ojapali And Its Comparative Analysis'	2 Years	Dr. Tiluttoma Baruah	5.00	2022-23
10	Design And Development of A Machine Learning Based Intelligent System For Career Guidance And Recommendation of Students.	2 Years	Dr. Manoj Kumar Sarma	5.00	2022-23
11	Conversion of Green Waste Such As Bamboo, Rubber Tree Waste Into Nanomaterials And Their Application In Construction Materials	2 Years	Dr. Rakesh Ashok Afre	4.10	2022-23
12	Use Of Municipal Polymer Waste Including Ppes And Face Masks To Improve Subgrade Strength	2 Years	Dr. Saikat Deb	3.00	2022-23
13	Comparison Of The Machinability Performances Evaluation Of Tungsten Carbide And Cbn Tool Along With Surface Morphological Study In Drilling Titanium Alloy	2 Years	Dr. Sanjib Kr. Rajbongshi	3.00	2022-23
14	Optimization Of The Kinetic Equation Of The Chemical Reaction Of H ₂ O-Al To Produce H ₂ Energy And Its Application In Hydrogen Vehicle	2 Years	Mr. Biswajyoti Das	2.00	2022-23
15	Creating A Green State-Of-The Art Astronomy Museum Near The Adu Block J Telescope Observatory Operated By Solar Power System	2 Years	Mr. Biswajyoti Das	1.25	2022-23
16	IoT-Based Smart Waste Management: Garbage Monitoring System	2 Years	Dr. T V V L N Rao	3.00	2022-23
17	IoT Enabled Smart Health Monitoring System For Patients Using 5g Wireless Network	2 Years	Dr. Debashis Dev Misra	3.00	2022-23
18	Early Diagnosis Of Common Disorders In Dairy Cows Using Machine Learning Algorithm	2 Years	Dr. Gunikhan Sonowal, Mr. Prasanta Bairagi	2.77	2022-23
19	Design A Computer- Aided Diagnosis/ Detection (Cad) System For Alzheimer's Disease Based On Medical Images.	2 Years	Dr. Dulumani Das	3.00	2022-23
20	An App Based Smart Library Management System (Slms) Using Qr Code Technology	2 Years	Mr. Prasanta Bairagi	2.80	2022-23
21	Development Of A 3- Wheel Vehicle With Novel Electronic Support	2 Years	Mr. Baharul Islam	2.75	2022-23
22	Empowering Sustainable Tea Farming Through Ai-Driven PestAnd Disease Detection	2 Years	Dr. Utpal Barman	3.00	2022-23
23	Ai Enabled App For The EarlyDetection of COPD	2 Years	Dr. Mrinal Goswami	2.20	2022-23
24	Tiwa Tongues Thrive: A Project For The Preservation of Tiwa Language	2 Years	Dr. Aniruddha Deka	3.00	2022-23
25	Epoxy Based Hybrid Polymer Composite To Function As Potential Shock Absorber And Efficient Electromagnetic Interference (Emi) Shielding Material	2 Years	Dr. Papari Das	3.00	2022-23

Sl. No.	Name of the project	Duration of the project	Name(s) of the teacher(s) working in the project receiving seed money	The amount of seed money provided (INR in lakhs)	Year of receiving the seed money
26	Determination And Characterization Of Pesticide Residues In Fruits And Vegetables Cultivated And Commercially Available In Assam Using Chromatographic Methods.	2 Years	Dr. Uttam Prasad Panigrahy	3.00	2022-23
27	Estimation And Removal Of Gadolinium (+3) Ion From Contaminated Wastewater	2 Years	Dr. Papia Dutta	3.05	2022-23
28	Amylase Production, Isolation, And Immobilization From Waste Peel Of Musa Spp.	2 Years	Ms. Rima Paul,	1.70	2022-23
29	Investigating The Potential Of Black Soldier Fly (Bsf) "Farming And Establishing Sustainable Agriculture, Creating Value Propositions Besides Facilitating Market Linkages."	2 Years	Mr. Bhabajyoti Saikia	4.90	2022-23
30	A Nano Structured Lipid Carrier Brexpiprazole Loaded Formulation – Anchoring Enhancement Of Oral Bioavailability And Efficacy	2 Years	Dr. T. Chandra Shekar	3.00	2022-23
31	Development, Characterization And Evaluation Of Diabetic Wound Healing Ointment Containing Selected Plant Extract Conjugated Silver Nanoparticles	2 Years	Mr. Pal Gogoi	3.00	2022-23
32	Diagnosis Of Polycystic Ovary Syndrome With Machine Learning And Data Analytics	2 Years	Dr. Nabanita Choudhury	2.50	2022-23
33	Performance Evaluation, Characterization And Comparison Of Revolute Jointed Kink Robotic Link	2 Years	Mr. Pulakesh Chetia	3.00	2022-23
34	Converting Plastic Waste Into Plastic And Nano SiO ₂ Embedded Bricks	2 Years	Ms. Nabanita Daimary	3.00	2022-23
35	Exploring The Complementary Effects Of Cinnamomum Tamala And Cinnamomum Zeylanicum Extracts In Combination With Conventional Drugs For The Treatment And Management Diabetes	2 Years	Mr. Dhiraj Baishya	2.40	2022-23
36	Development And Assessment Of A Low-Cost Budget Pharmacology Simulation Software Intended For Pharmacy Students As An Alternative To Animal Experimentation.	2 Years	Dr. Utpal Barman,	5.00	2022-23
37	Preliminary Study On Effect Of The Anthropogenic Activities On The Two Wetlands Of Guwahati (Silsako And Khamrenga Beel)	2 Years	Dr. Jyotchna Gogoi	2.00	2022-23
38	Green Synthesis And Characterization Of Silver Nanoparticles From Orange Peel Extract And Its Evaluation For Antibacterial Activity	2 Years	Dr. Neonyoti Bordoloi	2.20	2022-23
39	A Mechanistic Insight Into Microtubule Targeting Anticancer Effects of Capsaicin From Bhoot Jolokia of North East India	2 Years	Dr. Biswa Prasun Chatterji	5.00	2022-23
40	Development And Characterization Of Drug-Loaded Polymeric Nanoparticles An Innovative Approach For Breast Cancer Treatment	2 Years	Dr. Nurjamal Hoque	2.90	2022-23
41	Monitoring Glycemic Control; The Importance of Self Monitoring Of Blood Glucose	2 Years	Ms. Sunday June Langstang	3.50	2022-23

Research Highlights 2022-23

FACULTY OF NURSING

Quality of life and Resilience post COVID-19 pandemic among women and impact of Resilience training program to empower women in Guwahati, Assam.

The COVID-19 pandemic profoundly impacted the Quality of Life (QoL) and resilience of women, particularly in vulnerable rural communities. This study aimed to strengthen QoL and resilience among women in five adopted villages of Assam down town University viz. Rajabari, Tinitukura, Tamulbari, Bengenabari, and Bonda Garobasti. Employing a pre-experimental pre-test post-test design, the study was conducted from October, 2021 to January, 2022. A sample of 250 women above 18 years of age was selected using a Simple Random Sampling technique. Informed consent was obtained prior to data collection. Results showed that the COVID-19 pandemic significantly affected QoL across all domains. Psychological (54.8%) and environmental health (50.8%) were the most impacted domains, followed by physical health (34.4%) and social relationships (29.6%). These findings brought to light the urgent need for targeted interventions to enhance psychological well-being and environmental health to improve overall QoL and resilience in post-pandemic settings.

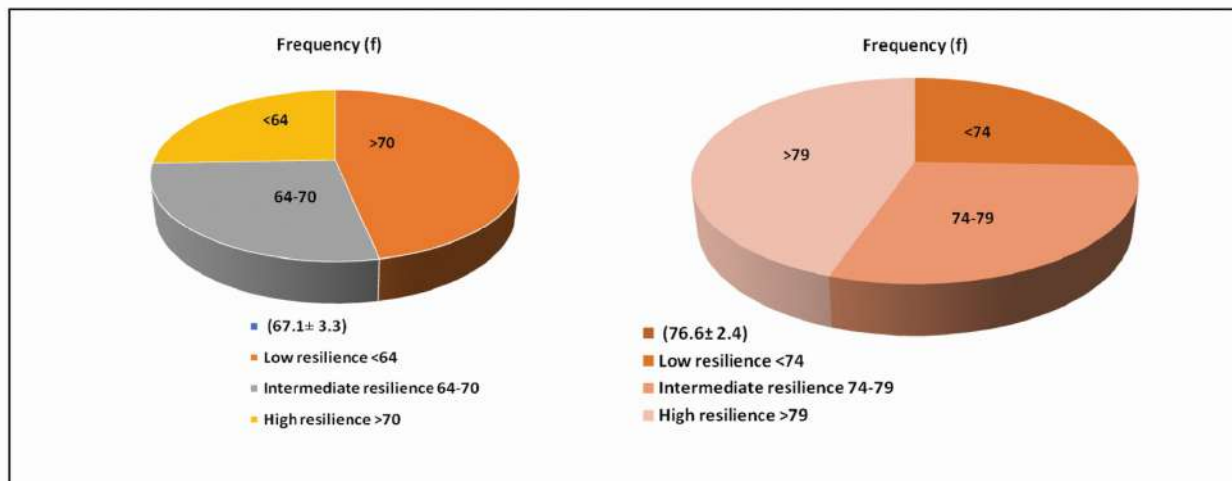
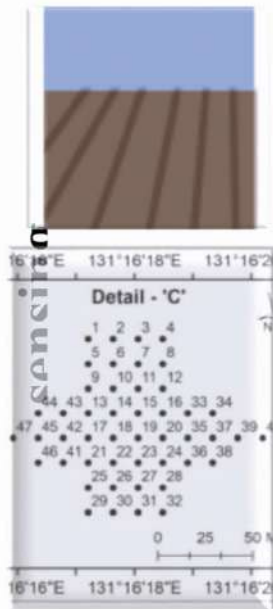


Fig 1: Frequency and percentage distribution of pre-test and post-test resilience, respectively

FACULTY OF ENGINEERING (CE & ME)

Remote



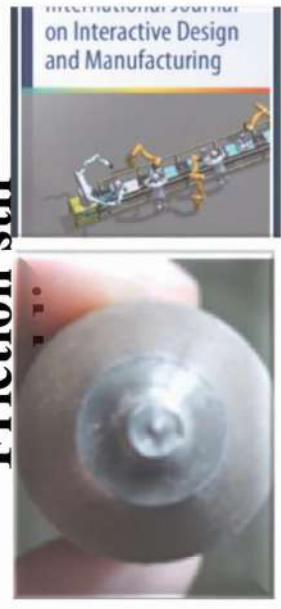
Public



Transport service



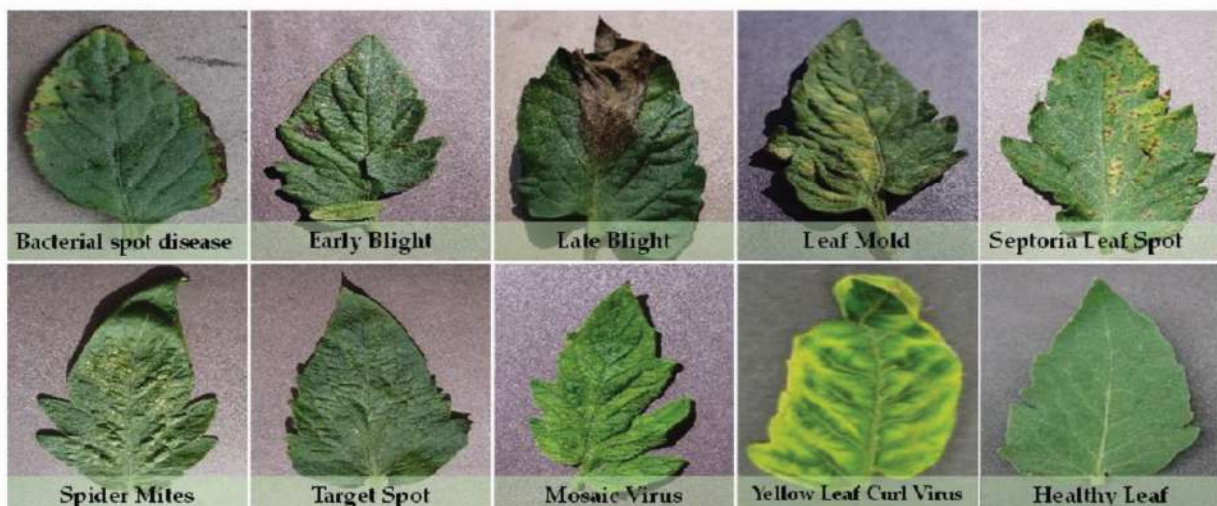
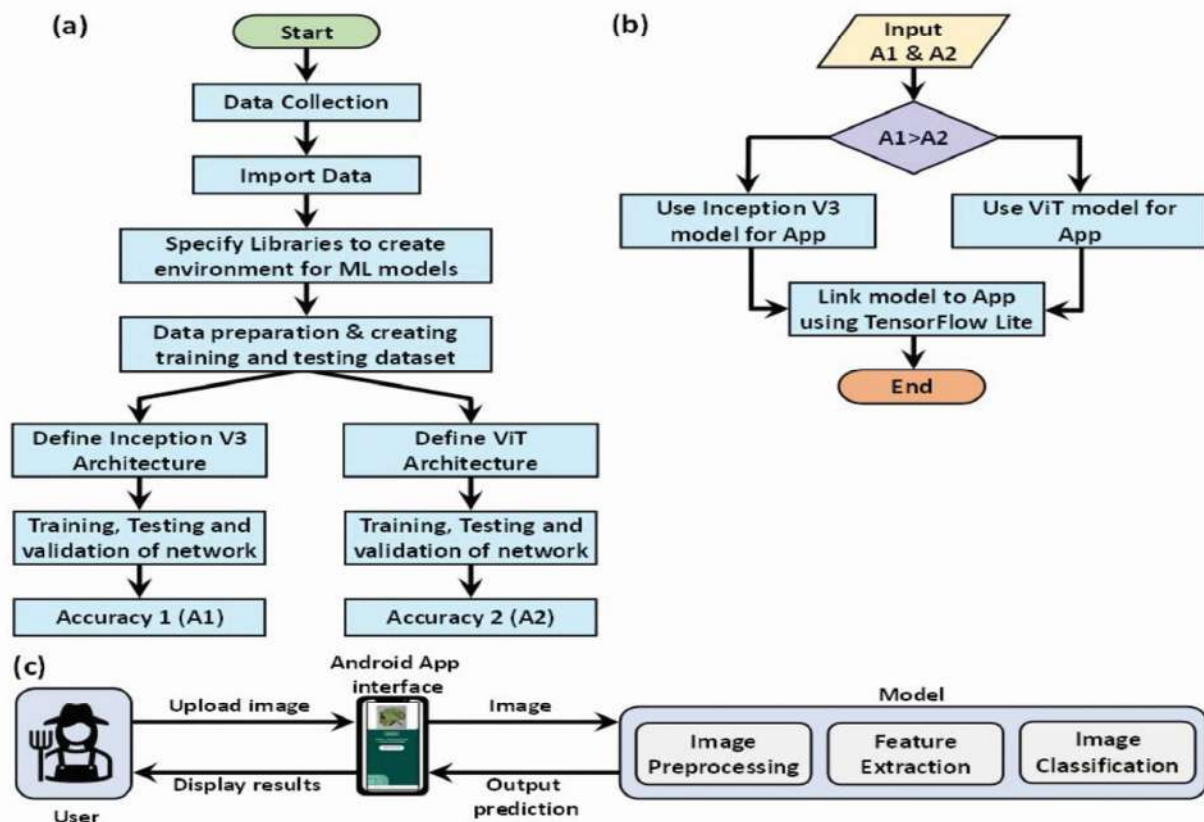
Friction stir



The Civil and Mechanical Engineering Faculty published their impactful research in the areas of Remote sensing, Public Transport, Transport service quality, and Friction stir welding. Understanding physical processes in nature, including the occurrence of slow-onset natural disasters such as droughts and landslides, requires knowledge of the change in soil moisture. The factors such as comfort, reliability, convenience, and safety are the priority areas of users' perception on bus service in Guwahati city pre COVID-19, whereas vehicle condition & hygiene emerged as an additional priority of users post COVID-19. A gap in users' perception of present service quality and expected service quality of the city bus service leads to dissatisfaction. The Double Spot Friction Stir Welding (DSFSW) and Double Spot Zigzag Friction Stir Welding (DSZFSW) have been developed to achieve higher strength in welded joints.

FACULTY OF ENGINEERING (CSE) & FACULTY OF COMPUTER TECHNOLOGY

The FoE (CSE / BCA) has significantly contributed to the field of smart agriculture through the development of AI-based models, such as the ViT-SmartAgri system, which employs Vision Transformers and smartphone technology for early plant disease detection. This innovation holds promise for improving crop health and productivity, ensuring food security and sustainable farming practices.



Sources and methods of manufacturing xanthan by fermentation of various carbon sources

Xanthan gum, an anionic polysaccharide with an exceptionally high molecular weight, is produced by the bacterium *Xanthomonas* sp. It is a versatile compound that has been utilized in various industries for decades. Xanthan gum was the second exopolysaccharide to be commercially produced, following dextran. In 1969, the US Food and Drug Administration (FDA) approved xanthan gum for use in the food and pharmaceutical industries. The food industry values xanthan gum for its exceptional rheological properties, which makes it a popular thickening agent in many products.

Meanwhile, the cosmetics industry capitalizes on xanthan gum's ability to form stable emulsions. The industrial production process of xanthan gum involves fermenting *Xanthomonas* in a medium that contains glucose, sucrose, starch, etc. as a substrate and other necessary nutrients to facilitate growth. This is achieved through batch fermentation under optimal conditions. However, the increasing costs of glucose in recent years have made the production of xanthan economically unviable. Therefore, various researchers have investigated alternative, cost-effective substrates for xanthan production, using various modified and unmodified raw materials. The objective of this analysis is to investigate how utilizing different raw materials can improve the cost-efficient production of xanthan gum.

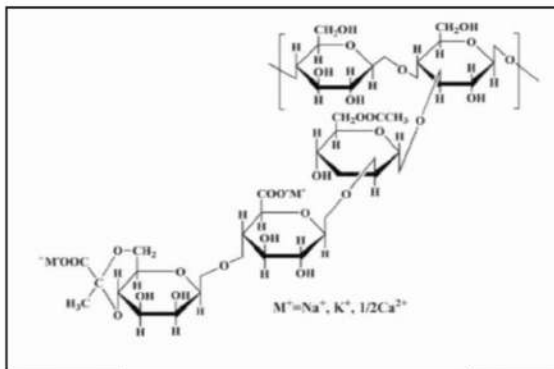


FIGURE 1 Chemical structure of xanthan gum.⁴

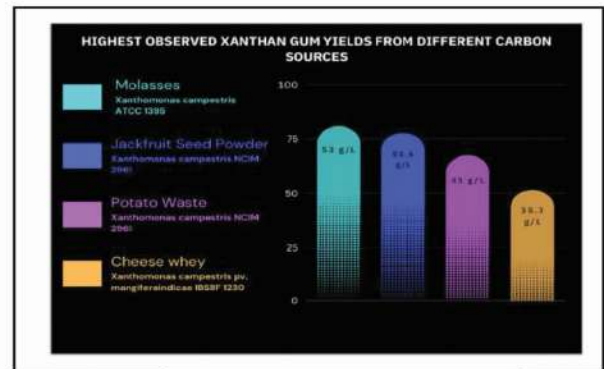


FIGURE 2 Infographic showing the highest yields of Xanthan from different carbon sources.

Strains of <i>Xanthomonas</i> used in xanthan gum production			
<i>Xanthomonas campestris</i> NCIM 2967	<i>Xanthomonas campestris</i> ATCC 1395	<i>Xanthomonas campestris</i> NCIM 2954	<i>X. campestris</i> strain MO-03
<i>Xanthomonas campestris</i> NRRL 1459A	<i>Xanthomonas campestris</i> pv. <i>manihotis</i>	<i>Xanthomonas campestris</i> PTCC 1473	<i>Xanthomonas axonopodis vesicatoria</i>
<i>Xanthomonas campestris</i> NRRL B-1459	<i>Xanthomonas campestris</i> EBK-4	<i>Xanthomonas campestris</i> LREL-1	<i>Xanthomonas campestris</i> pv. <i>campestris</i> 254
<i>Xanthomonas campestris</i> ATCC 13957	<i>Xanthomonas campestris</i> pv. <i>mangiferae</i> IBSBF 1230	<i>Xanthomonas campestris</i> pv. <i>campestris</i> 1078	<i>Xanthomonas campestris</i> NCIM 2956
<i>Xanthomonas campestris</i> NRRL B-1459 54-II	<i>Xanthomonas campestris</i> pv. <i>mangiferae</i> IBSBF 2103	<i>Xanthomonas campestris</i> pv. <i>campestris</i> IBSBF 1866	<i>Xanthomonas campestris</i> pv. <i>campestris</i>

FIGURE 3 Different strains of *Xanthomonas* used in xanthan gum production.

Publications of AdtU during the academic session 2022-23

1. Books and Book Chapters

Sl. No	Book/Book chapter Publication Title	Year of Publication	ISBN/ISSN / Digital Object Identifier (doi) Number	Author/s Name
1	Natural Medicine (Volume 2) New Avenues in Drug Discovery and Bioactive Natural Products	31-07-2023	978-981-5136-32-6	Saikat Sen, Raja Chakraborty
2	Recent Trends Fostering Future of Engineering	27-07-2023	978-81-964605-4-9	All the faculty members of Faculty of Engineering
3	Natural Medicine (Volume 1) Practice and Re-Emergence of Herbal Medicine	27-07-2023	978-981-5080-43-8	Saikat Sen, Raja Chakraborty
4	Human Resource Management in the New Era	09-07-2023	978-81-962377-0-7	Dr.Jyotiprasad kalita,Dr. SATISH SHARMA, Dr.Ravi Gupta, Dr.Surendra Kumar
5	Comprehensive MCQ for Medical Laboratory Technology	05-06-2023	978-93-5747-138-1	Ashok K Sah
6	CHALLENGES & DEVELOPMENT OF 21ST CENTURY From Holistic Perspective	05-06-2023	978-93-95606-18-9	Dr. Bijoy Das Prof. M. Tineshowri Devi Dr. Suparna Dhar
7	Pharmacology Lab Manual I,II & III	01-06-2023	9789394817012	Dr. Niladry Sekhar Ghosh,Anubhav Dubey,Mamta kumari
8	Bacterial lipase from untapped soil of Panikhaiti, Guwahati	01-06-2023	978-93-94638-29-7	Dr. Jai Shanker Pillai HP, Dr. Laishram Shantikumar Singh, Miss. Risa Debbarma, Dr. Venkat M Shinde
9	TEXTBOOK OF PHARMACOLOGY	01-06-2023	To Provide	Dr. Laishram Shantikumar Singh Dr. Jaishanker Pillai HP Dr. Venkat M Shinde Mrs. Diksha Saharia Mr. Mangal Murthi G
10	Social Engineering Attack: Rethinking Responsibilities and Solutions	30-05-2023	979-8-88697-739-4	Gunikhan Sonowal
11	Practical Book of Pharmaceutical Analysis I	23-05-2023	978-93-91173-12-8	Prof. Niladry Sekhar Ghosh,Ms Jyoti Monga,Prof B.K.Dey
12	Hotel Accommodation Operations	18-05-2023	9789392313998	Dr.Bhola Chourasia
13	Recent Advances In Pharmaceutical Sciences, Volume 12	04-04-2023	978-81-958789-3-2	Sandhya K,Krupa J, Rajesh G,Cyriil S,Dilsar G,Mamta K,Shivkant P,Niyati S,Falakaara S,Kinjal P,P,Dilip K.D,Harshkumar B,Sunil K,Varunsingh S,Ujjval P.V,Pradeep B,Trivedi K.N,Nirmal S,Chaitrali T, Rajesh H
14	HANDBOOK OF CONTACT LENS	25-03-2023	9789395699570	RAKIBUL HASAN KHAN
15	Counselling Psychology: An Indian Overview	16-03-2023	9789392001529	Dr Ashutosh Srivastava
16	Text Book of Novel Drug Delivery Systems	15-03-2023	978-9355744777	Dr. Y. Ganesh Kumar,Dr. J. Rajkumar,Dr. Uttam Prasad Panigrahy,V. Anusha,M. Akiful Haque
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20	Multidisciplinary Research in Commerce and Management Vo. 1	21-11-2022	978-93-95456-55-5	Bala Dhandayudham T,Dr Rose Kavitha, Manish Kumar.R, Manjesh S K,Dr. Girishkumar N. Rana, Rezashkumar R. Mistry,Dr. M. Abdul Rahuman,Dr. Manjunatha. V, Prof. Gunashree. B,Dr. Rajesh Kumar Pandey, Miss. Anjali D. Singh,Dr. Rishi Chakravarty,Dr. Savitha V, Ranjansathya Das S,Dr. C. Aishwarya, Dr. Padmaja DV,Mrs. Preetha Maipady, Swathi,S.C.Vetrivel, V.Krishnamoorthy, T.P.Saravanan, R.Maheswari,Sheefa Akdas, Dr.

Sl. No	Book/Book chapter Publication Title	Year of Publication	ISBN/ISSN / Digital Object Identifier (doi) Number	Author/s Name
				P. M. Shiva Prasad,Sheefa Akdas, Dr. P. M. Shiva Prasad,Sreejith P,Amal Joseph,Dr K.Mal
21	Women Empowerment: Dimensions and Determinants	19-10-2022	978-93-94238-82-4	Nirmali Gogoi,Gitumoni Konwar,Zulanbeni C Kithan,Mridusmita Nath
22	Handbook of practical Haematology for MLT	25-09-2022	9789392330186	Sunit Nath,Anamika Das
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24	A handbook of Fundamentals of Nursing	02-09-2022	978-93-95632-14-0	Manashi Sengupta Nongmeikapam Monika
25	REUSE OF BRICK WASTE IN CONSTRUCTION INDUSTRY	27-07-2023	978-81-964605-4-9	Mr. Saikat Deb
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40	Being a Women in 21st Century: A Bane or Boon	05-06-2023	978-93-95606-18-9	HAPPY BAGLARI

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41	Bamboo Shoot as a Potential, Eco-Friendly Biodiverse Resource with its Sustainability	20-06-2023	978-81-19281-08-4	Ritimita Devi , Niku Mani Bhatta , Tritrisha Sarma , Dr. Manash Pratim Sarma
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57	Innovative Pharmaceutical Excipient and Their Evaluation: A Study on Okra Fruit	04-02-2023	978-81-19039-55-5 (Print) 978-81-19039-59-3 (eBook)	Soma Das,Dhrubajyoti Sarkar,Ashim Kumar Sen,Dhanya B. Sen,Sajal Kumar Jha,Rusham Das
58	An Insight on Recent Trends and Advancement of Phytopharmaceuticals as Anti-fungal Therapeutics	15-02-2023	ISBN (Print): 978-981-5079-61-6; ISBN (Online): 978-981-5079-60-9	Bapi Ray Sarkar,Ananta Choudhury,Atanu Bhattacharya
59	Green Tea and Its Numerous Health Benefits	25-01-2023	978-1-80355-664-2	Ruhul Amin, Biplab Kumar Dey, Nasreddine El Omari, Abdelhakim Bouyahya, Samantha Drouet, Christophe Hano, and Javad Sharifi-Rad
60	Role of Biosurfactants in biofilm prevention and disruption	01-01-2023	doi.org/10.1007/978-3-031-21681-4_22	Chandana Malakar, Suresh Deka, Mohan ch. Kalita
61	Elderly & Their mental health during COVID-19	10-01-2023	978-93-5594-523-5	Dr Bijoy Das

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62	Corporate Social Responsibility as a measure of Sustainability : A Literature review approach	13-12-2022	978-93-91267-15-5	Dr. Rishi Chakravarty
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67	Extent of Artificial Intelligence in Physiotherapy	03-10-2022	978-93-5570-408-5	Dr Shalaka Baidya (PT), Dr Vandana Kumari (PT)
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73	Panoramic View about Microalgae Biomass as Waste-to-Energy: A Biorefinery Concept	02-09-2022	ISBN 978-3-031-06561-3	Bordoloi, N., Bora, N., Deka, A., Athparia, M., Sohtun, P., & Katakai, R.
74	Self-assembled protein nanoparticles for multifunctional theranostic uses	13-09-2022	9780323899536	Piyali Dey, Somasree Ray, Pronobesh Chattopadhyay
75	An Approach to Performance Management	10-08-2022	978-93-93582-19-5	Dr. Bhabajyoti Saikia

2. Selected publications in reputed high IF or UGC, SCOPUS, or WEB of Science indexed journal

Sl. No.	Publication Title	Author-name	Journal-name	Journal link	DOI or Article Link
1.	Tailored TiO ₂ Nanostructures For Designing Of Highly Efficient Dye Sensitized Solar Cells: A Review	GURSIMRAN KAUR, RUHIT JYOTI KONWAR, PUNEET NEGI, HEMAUNT KUMAR, NISHA DEVI, GAGANDEEP KAUR, HIMANI, MANPREET KAUR, RAKESH SHARMA, PRAKASH CHANDRA SATI, VINOD KUMAR, PANKAJ SHARMA, JITENDRA PAL SINGH, AJAR NATH YADAV	Nano structures & nano objects	https://www.sciencedirect.com/journal/nano-structures-and-nano-objects	https://www.sciencedirect.com/science/article/abs/pii/S2352507X23001191
2.	Formulation and evaluation of stability indicating hplc for simultaneous estimation of drugs pantoprazole and thiethylperazine	Ajay Kumar, Dr. Mathews T Thelly, Dr. Dharmendra Ahuja, Rahul Kumar Shaw, Dr. Ramesh Parmar, Dr. Rinchi Bora, Shivani, Vikas Kumar Pandey, Manveen Kaur, Piyush Vatsha	Journal of pharmaceutical negative results	https://www.pnrjournal.com/index.php/home/article/view/8783	10.47750/pnr.2023.14.03.313
3.	Nutrient stabilization and heavy metal reduction in organic wastes using Eisenia fetida (savigny) and Parionyx escavatus (perrier)	L. N Kakati, Jingli Mozhui Patricia Kiewhuo, Bendang Ao	Environment development sustainability	https://link.springer.com/journal/10668	10.1007/s10668-023-03088-1
4.	Nanomaterials in cancer immunotherapy: a spotlight on breast cancer	Mohammad Zaki Ahmad, Javed Ahmad, Ahmad Umar, Basel A. Abdel-Wahab, Ahmed A. Lahi, Zufesha Noorul Huda Khan, Kalyani Pathak, Md Rizwanullah, Musarrat Hussain Warsi, Riya Saikia, Manash Pratim Pathak, And Sheheryar Munir	Science of advanced materials	https://www.ingentaconnect.com/content/asp/sam/2023/00000015/00000003/art00001;jsessionid=7qcdrlqilo72.x-ic-live-01	10.1166/sam.2023.4438
5.	Implications of metabolic dysfunction associated fatty liver disease in covid-19	R Chakraborty, Saikat Sen Deepak Sharma, Devesh U Kapoor, Akanksha Dwivedi, Rakhi Khabiya	World journal of clinical cases	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10013103/#:~:text=Core%20Tip%3A%20Metabolic%20associated%20fat%20D%20CoV%20%20infection.	10.12998/wjcc.v11.i6.1275
6.	A clinical case report on interventricular metastatic from a lung primary	Arnabjyoti Deva Sarma, Moitrayee Devi, Jibon Sharma	Current medicine research and practice	https://journals.lww.com/cmre/fulltext/2023/13010/a_clinical_case_report_on_intraventricular.9.aspx	10.4103/cmre.cmrp_89_21
7.	Assessment of antagonistic activity of nitrogen fixing bacteria against plant pathogens	Anjan Kumar Sarma, Prasenjit Bhagawati, Bobita Deb	Indian journal of natural sciences		
8.	Cardioprotective activities of some indian spices: an insight into pharmacology and phytochemical investigation	Kalyani Pathak, Dr. Manash Pratim Pathak, Riya Saikia, Urvashee Gogoi, Jon Jyoti Sahariah, Aparoop Das, Mohammad Zaki Ahmad, Tirna Paul, Jyotirmoy Das And Saif About M. Alqatani	Current traditional medicine	https://www.researchgate.net/publication/368654298_Cardioprotective_Activities_of_some_Indian_Spices_An_Insight_into_Pharmacology_and_Phytochemical_Investigation	10.2174/2215083809666230210105442
9.	Adolescent obesity and socio-economic status in educational institutes of Guwahati metro, Assam	Prof. Nirmali Gogoi	Indian journal of natural science		
10.	Crude oil degradation by pure and mixed bacteria and their enzyme: a review	Swagota Gogoi, Moitrayee Devi	Indian journal of natural sciences		

Sl. No.	Publication Title	Author-name	Journal-name	Journal link	DOI or Article Link
11.	Soil moisture change detection with sentinel-1 sar image for slow onsetting disasters: an investigative study using index based method	Arnob Bormudoj, Masahiko Nagai, Vaibhav Katiyar, Dorj Ichikawa, Tsuyoshi Eguchi	Land	https://www.mdpi.com/2073-445X/12/2/506	10.3390/land12020506
12.	Novel discovery of exosomes biomarker from herpes zoster viral infection: linking to cerebrovascular coincidence	Ruhul Amint.B.Emrank.Dhama	Annals of medicine & surgery	https://journals.lww.com/annals-of-medicine-and-surgery/Fulltext/2023/02000/Novel_discovery_of_exosomes_biomarker_from_herpes.63.aspx?content=LatestArticles	10.1097/MS9.00000000000000220
13.	A critical study on genus ocimum of dibrugarh district of assam.	Lipia Deka, Dr. Prasenjit Bhagawati, Dr. Ashish Kar	International journal of biosciences	https://innspub.net/a-critical-study-on-genus-ocimum-of-dibrugarh-district-of-assam/	10.12692/ijb/22.2.248-259
14.	Characterization of essential oils from four different indigenous citrus varieties of northeast india and their antioxidant activities	Surjya Loying, Dr Manash Pratim Sarma, Dr Rajeev Sarmah, Devabrata Saikia, Prosenjit Bhagawati	International journal of biosciences	https://innspub.net/characterization-of-essential-oils-from-four-different-indigenous-citrus-varieties-of-northeast-india-and-their-antioxidant-activities/	http://dx.doi.org/10.12692/ijb/22.2.208-214
15.	Herbal tooth gel for the management of gingival bleeding and toothache	Priyanka Kashyap, Mohammad Zaki Shamim, Bristi Plawan, Dayita Kakoti, Genmuanlal Suantak, Parija Nath, Priya Baruah	Journal of pharmaceutical negative results	https://www.pnrjournal.com/index.php/home/article/view/8237	https://doi.org/10.47750/pnr.2023.14.02.358
16.	Fermented food products in the himalayan belt (north east india) and their health benefits	Jubanlak Mary Pohsneemdeep Prakash Parasarelancheran Ramakrishnan	International journal of gastronomy and food science	https://www.sciencedirect.com/science/article/abs/pii/S1878450X23000185?via%3Dihub	https://doi.org/10.1016/j.ijgfs.2023.100676
17.	Estimation of effective dose in monte carlo simulation method for ct coronary angiography patients	Arnabjyoti Deva Sarma, Dr. Mrinal Kanti Singha, Jibon Sharma, Dr. Manash Pratim Kashyap	International journal of life science and pharma research	https://www.researchgate.net/publication/368461907_Estimation_of_Effective_Dose_in_Monte_Carlo_Simulation_Method_for_CT_Coronary_Angiography_Patients_Life_Science_Radiology	10.22376/ijlpr.2023.13.2.L194-L201
18.	A brief overview on potential biomedical and pharmaceutical application of naturally synthesized chitosan	Chitralkha Katak, Dr. Smita Baruah, Dr. Minakshi Bhattacharjee	Indian journal of natural sciences	https://www.researchgate.net/publication/372860721_A_Brief_Overview_on_Potential_Biomedical_and_Pharmaceutical_Application_of_Naturally_Synthesized_Chitosan	
19.	Phytotherapy used by the common people of assam (india) for the treatment of gynaecological problems	Chitralkha Katak	Indian journal of natural sciences		
20.	Safety and anti-fatigue activity of ayurvedic formulation shramahara mahaakashaaya - a pre-clinical study	Bidhan Mahajonmanish Kumar Gautama. Ramamurthy, Rupashri Nath, Neeladri Das and Partha Roy	Toxicology international	https://www.informaticsjournals.com/index.php/toxi/article/view/30296	10.18311/ti/2022/v29i4/30296
21.	Recent advances on natural and non-natural xanthenes as potential	Urvashee Gogoiurvashee Gogoikalyani Pathak, Riya Saikia, Manash Pratim	Medicinal chemistry	https://www.eureka-select.com/article/128433	10.2174/157340641966621226093311

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	anticancer agents: a review	Pathak, Tirna Paul, Aparoop Das			
22.	Passenger's perception about city buses in the aftermath of covid 19: experience from guwahati city, india	Saikat Deb, Gilbert Hinge	International journal of disaster risk reduction		
23.	Rheumatoid arthritis in hiv infected individuals: a cross-sectional study	Suresh Jaiswalashok K Sah	Hiv & aids review	https://hiv aids.term edia.pl/Rheumatoid -arthritis-in-HIV- infected-individuals- a-cross-sectional- study-in- Nepal,147413,0,2.ht ml	10.5114/hivar.2023.12475 1
24.	Streptomyces sp. Strain pbr11, a forest-derived soil actinomycetia with antimicrobial potential	Rajkumari Mazumdardebajit Thakurpartha Pratim Dutta, Juri Saikia, Jagat Chandra Borah	Microbiology spectrum	https://pubmed.ncbi.nlm.nih.gov/36719230/	10.1128/spectrum.03489-22
25.	Influenza and respiratory syncytial virus interbreed: engendering a novel deadly virus	Ruhul Amint.B.Emrandhama, K	International journal of surgery	https://journals.lww.com/international-journal-of-surgery/fulltext/2023/02000/influenza_and_respiratory_syncytial_virus.37.aspx	10.1097/JS9.0000000000000187
26.	Respiratory syncytial virus infection: a new threat of public health, epidemiology, pathogenesis, genomic characteristics, and current status	Shopnil At.B.Emraanruhel Amin Et Al.	International journal of surgery	https://journals.lww.com/international-journal-of-surgery/fulltext/2023/02000/respiratory_syncytial_virus_infection__a_new.40.aspx	10.1097/JS9.0000000000000197
27.	Langya virus: slope of the iceberg for unexplored pathogens	Ruhul Amint.B.Emrandarwin, Ronald ; Chopra, Hitesh	International journal of surgery	https://journals.lww.com/international-journal-of-surgery/fulltext/2023/02000/langya_virus_slope_of_the_iceberg_for_unexplored.30.aspx	10.1097/JS9.0000000000000151
28.	Fishery potential of the most polluted river of india: kolong river, nagaon, assam, india	Kangkana Medhiarup Kumar Hazarikakangkana Medhi, Arup Kumar Hazarika, Suraj Chetri, Sasanka Sekhar Ghosh, Jyotismita Das, Amlan Kumar Dey	Environment and ecology research	https://www.hrpub.org/download/20230228/EER5-14029558.pdf	10.13189/eer.2023.110105
29.	A study on the role of optometrists in abilities in the public and private sectors	Rakibul Hasan Khan	European journal of molecular & clinical medicine	https://ejmcm.com/issue-content/a-study-on-the-role-of-optometrists-in-abilities-in-the-public-and-private-sectors-1333	
30.	Psychosocial conditions of healthcare workers during fight against covid-19	Dr. Bijoy Das, Manimugdha Medhi, Rajgun Handique And Dr. Nironjon Islary	Indian journal of natural sciences		
31.	A review on phytochemistry of paederia foetida linn	Dr. Partha Pratim Dutta, Khamtibha Marbaniang, Dr. Saikat Sen, Biplab Kumar Dey, Prof. Narayan Chandra Talukdar	Phytomedicine plus	https://www.researchgate.net/publication/366880075_A_review_on_phytochemistry_of_Paederia_foetida_Linn	10.1016/j.phyplu.2023.100411
32.	Amelioration of streptozotocin induced cytotoxicity by mimosa pudica root extract - a proteomic based in-vitro study	Pallavi S. Jamadagnipallavi S. Jamadagnisharad D. Pawar, Shrirang Jamadagni, Shridhar Chougule, Manish Wanjari, Manish Kumar Gautam,	Toxicology international	https://www.informaticsjournals.com/index.php/toxi/article/view/29645	10.18311/ti/2022/v29i4/29645

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		Sudesh Gaidhani, Arun Gurav And N. Shrikanth			
33.	Impact of liver diseases on pregnancy and puerperium stage: a systematic review	Tamanna Majimanish Kumar Gautamayan Chatterjee	Journal of pharmaceutical negative results	https://pnjournal.com/index.php/home/article/view/7415	10.47750/pnr.2023.14.S02.212
34.	Vector-borne diseases: prevalence, impacts, and strategies to address disease burden and threats	Piyali Dey, Deydanswarg Goyary, Santa Mandal, Biplab Kumar Dey, Anurag Verma	International journal of mosquito research	https://www.researchgate.net/publication/368478036_Vector-borne_diseases_Prevalence_impacts_and_strategies_to_address_disease_burden_and_threats	10.22271/23487941.2023.v10.i1a.659
35.	Analytical method development and validation of naratriptan and zolmitriptan by spectrophotometry	Kemisetti Dp Josef Yakinalam F, Islam M, Deka H, Amin R, Dey Bk	International journal of biology, pharmacy and allied sciences	https://ijbpas.com/archive/archive-single-pdf/5373	10.31032/IJBPAS/2023/12.1.6773
36.	Herbal medicine for the treatment of obesity-associated asthma: a comprehensive review	Aparoop Das, Dr. Manash Pratim Pathak, Kalyani Pathak, Riya Saikia, Urvashree Gogoi	Frontiers in Pharmacology	https://www.frontiersin.org/journals/pharmacology/pharmacology	https://www.frontiersin.org/journals/pharmacology/articles/10.3389/fphar.2023.1186060/full
37.	An ethnobotanical study of the indigenous medicinal knowledge by the rural people in different villages of Agaya Narah Gram Panchayat, West Bengal, India	Sourav Saha, Arin Bhattacharjee, Basant KUMAR Singh, Ankush Biswas, Dr. Saikat Sen	Plant Biosystems	https://www.tandfonline.com/journals/tplb20	https://www.tandfonline.com/doi/full/10.1080/11263504.2023.2243915
38.	Optimizing Nutrient Modeling in Organic Pig Production through Refining Feeding Strategies	Jasmine Islam, Ajeet Singh, Giresha AS	Revista Electronica de Veterinaria	https://www.veterinaria.org/index.php/REDVET	https://www.veterinaria.org/index.php/REDVET/article/view/352
39.	Multi-Targeted Prediction of the Antiviral Effect of Momordica charantia extract based on Network Pharmacology	Soma Das, Rahul Laxman Gajbhiye, Nitesh Kumar, Dhrubajyoti Sarkar	Journal of Natural Remedies	https://www.informaticsjournals.com/index.php/jnr/article/view/31430	https://doi.org/10.18311/jnr/2023/31430
40.	Evaluating the Effects of Forage Quality on Sheep Productivity and Meat Quality	Manashree Avinash Mane, Prasenjit Bhagawati, Naaz Bano	Revista Electronica de Veterinaria	https://www.veterinaria.org/index.php/REDVET	https://www.veterinaria.org/index.php/REDVET/article/view/360
41.	An Energy-Efficient Protocol based on Recursive Geographic Forwarding Mechanisms for Improving Routing Performance in WSN	Dr. Prasanta Pratim Bairagi, Dr. Mala Dutta, Kanojia Sindhuben Babulal	IETE Journal of Research	https://www.tandfonline.com/journals/tijr20	https://doi.org/10.1080/03772063.2023.2186501
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43.	Natural Flavonoids as Potential Therapeutics in the Management of Diabetic Wound: A Review	Nongmaithem Randhoni Chanu, Pal Gogoi, Pervej Alom Barbhuiya, Dr. Partha Pratim Dutta, Dr. Manash Pratim Pathak , Dr. Saikat Sen	Current Topics in Medicinal Chemistry	https://benthamscience.com/public/journal/38	https://www.eurekaselect.com/article/131142
44.	The agricultural and therapeutic potential of Lavatera thuringiaca L. (Malvaceae)	Mariola Staniak, Iwona Kowalska, Ruhul Amin, Javad Sharifi-Rad, Katarzyna Czopek, Anna Stępień-Warda	Acta Agrobotanica	https://www.journalsystem.com/agb/	https://www.journalsystem.com/agb/pdf-176804-106838?filename=The%20agricultural%20and.pdf
45.	Hetero Cyclic Compounds in the Treatment of Triple-Negative Breast Cancer	Sudip Kumar Mandal, Agnidipta Das, Anindya Bose, Vagish Dwibedi, Paramita Ganguly, Sipra Sarkar, Ranjana Prakash, Biplab Kumar Dey, Sanjeet Mandal and Santosh Kumar Rath	Current Cancer Therapy Reviews	https://www.eurekaselect.com/journal/9	https://www.eurekaselect.com/article/128533
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47.	Rheumatoid arthritis in HIV-infected individuals: a cross-sectional study in Nepal	Suresh Jaiswal, Pankaj Issar, Ritu Panda, Rohit Rathore, Sparsh Kunwar, Ankur Vashishtah, Mukesh Kumar, Md Mahamood, Bishnu Raj Tiwari, Ashok Kumar Sah	HIV and AIDS Review	https://www.sciencedirect.com/journal/hiv-and-aids-review	https://doi.org/10.5114/hivar.2023.124751
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49.	Assessing the Sustainability of Pork Production Systems and Their Effect on Animal Welfare and the Environment	Asihwarya Sharma, Suphiya Parveen, Smita Sarma	Revista Electronica de Veterinaria	https://www.veterinaria.org/index.php/REDVET	https://www.veterinaria.org/index.php/REDVET/article/view/362
50.	Exploring the Potential of Herbal and Organic Minerals as Feed Additives for Beef Cattle Production	Smita Sarma, Sujayaraj S, Anupama Nanasaheb Tarekar	Revista Electronica de Veterinaria	https://www.veterinaria.org/index.php/REDVET	https://www.veterinaria.org/index.php/REDVET/article/view/321
51.	Poultry Health Management Practices and Their Effect on Production and Reproduction	Singh AK, Krupa S, Minakshi Bhattacharjee	Revista Electronica de Veterinaria	https://www.veterinaria.org/index.php/REDVET	https://www.veterinaria.org/index.php/REDVET/article/view/363/171
52.	Evaluation of Nutrient Content and Quality of Commercial Dog Foods	Mukesh Kumar Yadav, Rekha MM, Jasmine Islam	Revista Electronica de Veterinaria	https://www.veterinaria.org/index.php/REDVET	https://www.veterinaria.org/index.php/REDVET/article/view/364/172
53.	Application of Precision Livestock Farming for Improved Goat Management and Production		Revista Electronica de Veterinaria		
54.	Performance analysis of support vector machine for early identification of citrus diseases		Journal of Applied and Natural Science		
55.	Assessing Milk Production and Quality during Mastitis Caused by a Variety of Pathogens in Dairy Cows		Revista Electronica de Veterinaria		
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57.	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		https://journals.lww.com/mjdy/fulltext/2023/16010/inducible_resistance_to_clindamycin_in.15.aspx
58.	Maximizing Broiler Chicken Production through In Ovo Injection of Vitamin E: Effects on Performance and Immune Function	Minakshi Bhattacharjee	Revista Electronica de Veterinaria		https://www.veterinaria.org/index.php/REDVET/article/view/347
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60.	Bioethanol production from Ficus fruits (Ficus cunia) by Fusarium oxysporum through consolidated bioprocessing system	Grihalaksmi Devi Nongthombam, Prakash Kumar Sarangi, Thangjam Anand Singh, Chandradev K. Sharma & Prof. Narayan C. Talukdar	Journal of Biomolecular Structure and Dynamics	https://link.springer.com/article/10.1007/s13205-022-03234-y	https://doi.org/10.1007/s13205-022-03234-y
61.	A comprehensive review on musa paradisiaca taxonomical, morphological classification and its pharmacological activities.	Dr. Durgaprasad Kemisetirajeswar Das, Dr. Bolay Bhattacharya	Journal of pharmaceutical negative results	https://dtct-academic-geekworkx.s3.amazonaws.com/2023/02/09/88c14b946f987d84865b9b9308e1b08c.pdf?X-Amz-Content-Sha256=UNSIGNED-PAYLOAD&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIATCKARISWG4TUUOVI%2F20240729%2Fap-south-1%2Fs3%2Faws4_request&X-Amz-Date=20240729T055016Z&X-Amz-SignedHeaders=host&X-Amz-Expires=60&X-Amz-Signature=d6791a9b612ae46fff0a716092051151fce759811eda050c948b7e7772618d48	10.47750/pnr.2022.13.S10.079
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63.	Polysaccharides obtained from vegetables: an effective source of alternative excipient	Dr. Ananta Chaudhury , Satyabrata Sarma, Biplab Kumar Dey	Journal of pharmacopuncture	https://www.researchgate.net/publication/366730812_Polysaccharides_Obtained_from_Vegetables_an_effective_sour	https://doi.org/10.3831/KPI.2022.25.4.317

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65.	Formulation and evaluation of oxyphenbutazone transdermal patches	Dhiraj Baishyaananta Choudhury, Josef Yakin, Himangshu Deka, Biplab Kumar Dey	Annals of multidisciplinary research, innovation and technology (AMRIT)		https://adtu.in/files/current_issue/vol1_issue2/2.Dhiraj_R1.pdf
66.	Effects of variable viscosity and thermal conductivity on an mhd heat and mass transfer flow past a stretching sheet	Kumud Borgohain, Sujan Sinhadav Konch	Advanced engineering science	https://advancedengineeringscience.com/article/660.html	
67.	Therapeutic properties of averrhoa carambola l and its utilization in development of value-added food products	Radali Duarah, Jasmin Islam, ph Vivekanandini Devi, Daisy Sharma, Pameena Narzary, Angkita Mishra	Annals of multidisciplinary research, innovation and technology (AMRIT)		
68.	A critical review on bioanalytical methods,impurity profiling,degradation study of empagliflozin and linagliptin	Dr. Durgaprasad Kemisetimr Amrit Kumar Rathdr Sruti Ranjan Mishra	Journal of pharmaceutical negative results	https://www.pnrjournal.com/index.php/home/article/view/5598	10.47750/pnr.2022.13.S08.478
69.	Study Of Workforce Diversity And Its Impact On Innovations In Organizationâ€™S Strategy Buildingâ€• (With Special Reference To Gender Diversity In Management Education Institutes Operating In Northeast Region	Dr.Jyotiprasad Kalita, Dr. Bhola Chourasia	The seybold report	https://seyboldreport.org/article_overview?id=MDEyMDIzMTEwMjU5MTE3Mzlw	10.5281/zenodo.7498817
70.	Citric acid esterified glutinous assam bora rice starch enhances disintegration and dissolution efficiency of model drug	Pratap Kalita, Abdul Baquee Ahmed, Dr. Saikat Sen, Raja Chakraborty	International journal of biological macromolecules	https://www.sciencedirect.com/science/article/abs/pii/S0141813022030513	10.1016/j.ijbiomac.2022.12.149
71.	Nutraceuticals and anti-inflammatory properties of basella rubra: a review	Faruk Alamjosef Yakinsubham Ghosh , Bhaskar Jyoti Pathak , Moidul Islam Judder , Hadiuz Zaman , Atanu Sarma , Dhruvajyoti Sarkar	Journal of pharmaceutical negative results	https://www.pnrjournal.com/index.php/home/article/view/5593/6829	10.47750/pnr.2022.13.S07.708
72.	Development of polyherbal anti-dandruff formulation: an approach to green cosmetics	Soma Das, Dhruvajyoti Sarkar, Faruk Alam, Aswini Kumar Sethi, Moidul I. Judder, Pallab Kalita	Journal of pharmaceutical negative results	https://www.pnrjournal.com/index.php/home/article/view/5018	10.47750/pnr.2022.13.S07.368
73.	Solubility enhancement of orally disintegrating tablets of pranlukast by solid dispersion technique	M. Pradeep Kumarm. Pradeep Kumaruttam Prasad Panigrahy, Satyabrata Jena, Karthickeyan Krishnan, S Prema, Rutuja Sonawane	European journal of molecular & clinical medicine	https://www.researchgate.net/publication/376046439_SOLUBILITY_ENHANCEMENT_OF_ORALLY_DISINTEGRATING_TABLETS_OF_PRANLUKAST_BY_SOLID_DISPERSION_TECHNIQUE	https://ejmcm.com/article_20389.html
74.	Paclitaxel nanosponges' formula and in vitro evaluation	J Pavan Kumarj Pavan Kumary. Ismail, Konatham Teja Kumar Reddy, Uttam Prasad Panigrahy, Palani Shanmugasundaram, M. Kishore Babu	Journal of pharmaceutical negative results	https://www.pnrjournal.com/index.php/home/article/view/5015	https://doi.org/10.47750/pnr.2022.13.S07.365

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76.	A review on the traditional preparation and its biochemical analysis of rice beer northeast, india	Rosamund Jyrwaananta Choudhuryikram Hussain, Lunasmrita Saikia, Gaurav Kakati, Md Rejwan Ahmed Choudhury, Ireenia Warjri, Biplab Kumar Dey	Indian journal of natural sciences		
77.	A review on new approaches to meet the challenges of human envenoming by snakebites	Faruk Alam, Josef Yakin, Mohidul Islam, Biplab Kumar Dey, Durgaprasad Kemiseti, Ashim Kumar Sen	Indian journal of natural sciences	https://www.researchgate.net/publication/366006638_A_Review_on_New_Approaches_to_Meet_The_Challenges_of_Human_Envenoming_by_Snakebites	
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79.	Plant derived essential oils as promising antimicrobial agents against food borne pathogens	Surjya Loyingmanash Pratim Sarmarajeev Sarmah, Devabrata Saikia, Deep Prakash Parasar, Manash Pratim Kashyap	Indian journal of natural sciences		
80.	An analysis on the market intermediaries and various marketing practices adopted by small tea growers with special reference to assam tea industry	Dr. Bhabajyoti Saikia, Dr. Homeswar Goswami	Indian journal of natural sciences		
81.	An analysis on the various possibilities and constraints of tea tourism with perspective to assam	Bhabajyoti Saikia n/An/A	Metszet		https://metszetjournal.com/
82.	Tribo-Performance Of Saw Dust Filled Natural Fiber "Glass Fiber Reinforced Epoxy Composites: Modelling And Optimization	Debrup Sarkar, Pranjal Borahsutanu Samanta, Nabam Teyi, Pulakesh Chetia, Roktutpal Borah	Materials today: proceedings	https://www.sciencedirect.com/science/article/abs/pii/S2214785322071772	https://doi.org/10.1016/j.matpr.2022.11.326
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85.	Comparative phytochemical study of total compound of glycyrrhiza glabra (yasthimadhu) and tinospora cordifolia (giloy) and their antimicrobial activity	Dhiman Chandra Paul, Deep Prakash Parasar, Sahil Afridi, Surjya Loying , Devabrata Saikia, Minakshi Bhattacharjee, Prasenjit Bhagawati, Manash Pratim Kashyap	Ecology environment and conservation		http://doi.org/10.53550/EEC.2022.v28i07s.035
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88.	Phytochemical screening and invitro evaluation of wound healing activity, polyherbal preparation using chick embryo model	K. Sudheer Kumark. Sudheer Kumard. Jeslin, Segu Prathyusha, Uttam Prasad Panigrahy, Sabeena Hussain Syed, Jeetendra Kumar Gupta	Journal of pharmaceutical negative results	https://www.researchgate.net/publication/365364100_PHYTOCHEMICAL_SCREENING_AND_INVITRO_EVALUATION_OF_WOUND_HEALING_ACTIVITY_POLYHERBAL_PREPARATION_USING_CHICK_EMBRYO_MODEL	https://doi.org/10.47750/pnr.2022.13.S08.262
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91.	Effect of structured teaching programme of knowledge regarding prevention and awarness on sexually transmitted disease among adolescents in a selected higher secondary schools, guwahati, assam	Prof. Nirmali Gogoi, T.Hoitinnei Kom	Purakala		
92.	Circulating microrna-122 as a potential biomarker for hepatitis c virus induced hepatocellular carcinoma authors:	Abdul Maliksubhash Medhiprajjalendra Barooah , Snigdha Saikia , Simanta Kalita, Manash Jyoti Kalita, Partha Pratim Das, Kalpajit Dutta , Pooja Bharali , Manash Pratim Sarma , Preeti Sarma , Mallika Bhattacharyya, Premashis Kar, Bhabadev Goswami , Musaed Alkholief Aws Als	International journal of cancer managemnet		
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94.	Phosphate solubilizing microorganisms: a review	Dr. Rajeev Sarmah, Anjan Kumar Sarma	Communication s in soil science and plant analysis	https://www.tandfonline.com/doi/full/10.1080/00103624.2022.2142238	10.1080/00103624.2022.2142238
95.	Evaluation of hypolipidemic, antioxidant, atherogenic index and cardiac risk suppressing effects of unpolished maniki madhuri rice extract and hplc analysis of phenolics compounds	Dr. Saikat Sen, Raja Chakraborty, Pratap Kalita	Journal of cereal science	https://www.sciencedirect.com/science/article/abs/pii/S0733521022001709?via%3Dihub	https://doi.org/10.1016/j.jcs.2022.103581

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97.	Synthesis, Molecular Docking, Molecular Properties Estimations And Antiinflammatory Activity Of 5,7-Dihydroxy-3'-Prenyl Flavanone.	Badikela Rama, Krishnaparameshwar Ravularathnakar Ch, Durgaprasad Kemiseti, Vijayaraj Surendran	Heterocyclic letters	https://www.researchgate.net/publication/365891226_SYNTHESIS_MOLECULAR_DOCKING_MOLECULAR_PROPERTIES_ESTIMATIONS_AND_ANTIINFLAMMATORY_ACTIVITY_OF_5_7-DIHYDROXY-3'_PRENYL_FLAVANONE	
98.	Long term impact of covid-19 pandemic on women: physical and mental, economy and social welfare.	Prof. Nirmali Gogoi, Zulanbeni C Kithan, Mridusmita Nath, Anusuya Goswami.	Purakala		
99.	Comparative study of applanation and optical coherence biometry method for the intraocular lens power calculation	Rakibul Hasan Khan	Journal of positive school psychology	https://www.journalppw.com/index.php/jpsp/article/view/13431	
100.	A Study of the Health Status of the Slum Dwellers and the present Healthcare Facilities in the Slum Areas.	Dr. Seema Sharma, Dr.Tabrez Uz Zaman	Bioscience research	https://www.researchgate.net/publication/364587366_A_study_of_the_health_status_of_the_Slum_Dwellers_and_the_present_healthcare_facilities_in_the_Slum_areas	
101.	Multidimensional chromatography and its applications in food products, biological samples and toxin products: a comprehensive review	R. Aminm. U. Khandakerf. Alam, Biplab Kumar Dey, J. R. Mandhadi, T. B. Emran, S. Z. Safi	Separations	https://www.mdpi.com/2297-8739/9/11/326	https://doi.org/10.3390/separations9110326
102.	Wound healing efficacy of rhamnolipid-coated zinc oxide nanoparticle along with its in vivo antibacterial efficacy against staphylococcus aureus	Chandana Malakar, Suresh Deka, Bhaswati Kashyap, Mohan Chandra Kalita	Experimental dermatology	https://onlinelibrary.wiley.com/doi/10.1111/exd.14692	10.1111/exd.14692
103.	Comparative Phytochemical Screening Through High Performance Thin Layer Chromatography Technique And Free Radical Scavenging Ability Of Five Species Of Genus Clerodendrum	Himangshu Sarma, Rajlakshmi Devi, Deepak Rabha, Puspanjali Khound, Nonibala Gurumayum, Partha Pratim Sarma, Partha Pratim Dutta, Paramita Choudhury, Kangkon Saikia, Sumi Pait, Jagat Chandra Borah, Dharmeswar Barman, Arundhuti Devi, Dulal Chandra Boruah	Vegetos	https://link.springer.com/article/10.1007/s42535-022-00494-0	https://doi.org/10.1007/s42535-022-00494-0
104.	The perception and challenges faced by physiotherapists during telerehabilitation in north eastern india	Dr Vandana Kumari (Pt), Dr Shalaka Baidya (Pt)	International journal of research and analytical reviews	https://www.researchgate.net/publication/357114014_Perceptions_and_willingness_of_physiotherapists_in_India_to_use_telerehabilitati	http://doi.org/10.1729/Journal.31844

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				on during the COV ID-19 pandemic	
105.	Gain and bandwidth enhancement of slotted microstrip antenna using metallic nanofilms for wlan applications	Parismita A.Kashyapkumares Sarmahindrani Dakua, Dr. Sunandan Baruah	Journal of king saud university – science	https://www.sciencedirect.com/science/article/pii/S1018364722005559	https://doi.org/10.1016/j.jksus.2022.102374
106.	Consequence of rotation on a radiative fluid flow past a porous plate in presence of dufour number	Kumud Borgohain, Sujan Sinha	Neuroquantology	https://www.neuroquantology.com/open-access/Consequence+of+rotation+on+a+radiative+fluid+flow+past+a+porous+plate+in+presence+of+Dufour+number-10465/	10.14704/NQ.2022.20.12. NQ77206
107.	Pharmacognostic evaluation of eranthemum indicum extracts for its in-vitro antioxidant activity, acute toxicology, and investigation of potent bioactive phytochemicals using hptlc and gcms	Flavius Phrangsngi Nonglang Surya Bhanabhijeet Khale, Wankupar Wankhar	Beni-suef university journal of basic and applied sciences	https://link.springer.com/article/10.1186/s43088-022-00311-2#citeas	https://doi.org/10.1186/s43088-022-00311-2
108.	Reducing the present and future plastic waste, energy, and environmental footprints with reference to guwahati, assam	Ajit Mohan Das, Dr, Sudhanshu Verma	Journal of positive school psychology	https://www.ijam.co.in/index.php/ijam/article/view/1729	
109.	Magnetic resonance elastography-techniques & clinical applications-an overview	Dr.Mohd.Arfaatmohd.Rashidatul Mishra, V.K Chakravarti, Pulsha Sangma, Nisha T.K , Dr.Kailash K. Mittal, Mohd.Rashid	Journal of shiyou university,natural science edition		
110.	A review on the volatile compounds of capsicum sp. And their biological activities	Munmi Duarah, Devabrata Saikia, Dr. Rajeev Sarma	Indian journal of natural sciences		
111.	Therapeutic Potential of Polyphenolic Nano-Based Strategies: A Review	Jyotirmoy Bhattacharyya, Josef Yakinkoushik Narayan Sarma, Pal Gogoi, Dr. Partha Pratim Dutta, Biplab Kr. Dey, Violina Kalita And Himangshu Deka	Indian journal of natural sciences	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9315271/	
112.	A study of the perceptions of permanent and contract employees towards performance appraisals in budget hotels in kolkata	Subhasis Maitid. Bhol Chourasia	Journal of positive school psychology	https://journalppw.com/index.php/jpsp/article/view/12613	
113.	An overview on plant derived phenolic compounds and their role in treatment and management of diabetes	H Deka, A. Choudhury, Biplab Kumar Dey	Journal of pharmacopunct ure	https://www.journal-jop.org/journal/view.html?uid=1004&vmd=Full	https://doi.org/10.3831/KPI.2022.25.3.1
114.	Ethnomedicinal practices and traditional medicinal plants of barak valley, assam: a systematic review	Pervej Alom Barbhuiya, Saikat Senab Abdul Mannaf Laskar, Hemanga Mazumdar, Dr. Partha Pratim Dutta, Dr. Manash Pratim Pathak, Biplab Kumar Dey	Journal of pharmacopunct ure	https://www.journal-jop.org/journal/view.html?uid=1002&vmd=Full	https://doi.org/10.3831/KPI.2022.25.3.149
115.	A review on diagnostic reference levels for adult patients undergoing chest (coronary angiography) computed tomography scan in north-east india	Dr. Arnabjyoti Deva Sarma, Dr. Mrinal Kanti Singha, Jibon Sharma	Asian pacific journal of health science	https://apjhs.com/index.php/apjhs/article/view/2180	https://apjhs.com/index.php/apjhs/article/view/2180/1364

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116.	A systematic review on enzyme extraction from organic wastes and its application	Indrani Barman, Nayan Talukdar, Shrijona Hazarika, Jyotchna Gogoi	Journal of biochemical technology	https://biochemtech.com/article/a-systematic-review-on-enzyme-extraction-from-organic-wastes-and-its-application-sk8pmyzqdhvnbnn	https://doi.org/10.51847/JVfUPnKi16
117.	An evaluation on the socio-cultural life of tea plantation workers in assam with respect to its historical perspective	Dr. Bhabajyoti Saikia, Dr. Homeswar Goswami	Ymer	https://www.researchgate.net/publication/346522260_Bio_exploration_for_Human_Welfare_An_integrative_approach	
118.	Optimal hierarchical attention network-based sentiment analysis for movie recommendation	Deepjyoti Roy, Dr. Mala Dutta	Social network analysis and mining	https://link.springer.com/article/10.1007/s13278-022-00954-0	
119.	Analysis on communication & participatory culture of the tea garden community with special reference to barak valley in assam	Dr. Bhabajyoti Saikia, Dr. Homeswar Goswami	Ymer	https://ymerdigital.com/current-issue/?cpage=4	10.37896/YMER21.09/61
120.	Effect of self-instructional module on knowledge regarding care of arteriovenous fistula among hemodialysis patients in selected hospitals, Guwahati, Assam	Khumukcham Monali Devi, Dr. Manashi Sengupta	Indian journal of health sciences and biomedical research kleu	https://www.researchgate.net/publication/363655283_Effect_of_self-instructional_module_on_knowledge_regarding_care_of_arteriovenous_fistula_among_hemodialysis_patients_in_selected_hospitals_Guwahati_Assam#:~:text=RESULTS%3A%20The%20study%20revealed%20that,on%20care%20of%20AV%20fistula.	10.4103/kleuhsj.kleuhsj_92_22
121.	Natural furin inhibitor(s) as potent therapeutic molecule to mitigate sars-cov-2 infection	Dhiman Chandra Paul, Minakshi Bhattacharjee, Dhani Ram Mahato, Dr. Manash Pratim Sarma	Journal of biomolecular structure and dynamics	https://pubmed.ncbi.nlm.nih.gov/36099195/	https://doi.org/10.1080/07391102.2022.2121760
122.	A review of plants for hepatic disorders	Revendra Parganiha, Arpan K. Tripathi, Segu Prathyusha, Pragati Baghel, Sanjay Lanjhiyana, Sweeti Lanjhiyana, Deepti Katiyar, Sachin Tyagi, Prince P. Sharma, Dhrubajyoti Sarkar	Journal of complementary medicine research	https://scholar.google.co.in/scholar?q=A+Review+of+Plants+for+Hepatic+Disorders&hl=en&as_sdt=0&as_vis=1&oi=scholar	10.5455/jcmr.2022.13.04.10
123.	An empirical study on health infrastructure of india to fight against covid-19	Manash Pratim Kashyap	Indian journal of natural sciences		
124.	Evolving spectrum of diabetic wound: mechanistic insights and therapeutic targets	R Chakrabortysaikat Senpobitra Borah, Dr. Partha Pratim Dutta	World journal of diabetes	https://dtct-academic-geekworkx.s3.ap-south-1.amazonaws.com/2022/09/23/a539f3caa4e051723567f8d7a042d4ba.pdf?X-Amz-Content-Sha256=UNSIGNED-PAYLOAD&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIATCK	

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125.	Issues, Expectations & Experience: A Critical Analysis Of Female Employeeâ€™S Retention In Hospitality And Tourism Industry	Dr. Bhola Chourasia, Dr. Jyoti Prasad Kalita	Specialusis ugdymas		
126.	A study of importance of ethics andsocial responsibility in a business: a study of marketing professional	Dr.Jyoti Prasad Kalita	Specialusis ugdymas	https://openurl.ebsco.com/EPDB%3Agcd%3A11%3A3395419/detailv2?sid=ebSCO%3Aplink%3Ascholar&id=ebSCO%3Agcd%3A159790411&crl=f	
127.	Service quality estimation and improvement plan of bus service: a perception and expectation based analysis	Saikat Deb, M.A. Ahmed, Debasish Das	Case studies on transport policy	https://www.sciencedirect.com/science/article/abs/pii/S2213624X22001419?via%3Dihub	https://doi.org/10.1016/j.cstp.2022.07.008
128.	Diversity of aquatic macrophytes of borbila and silsako wetland in assam	Manglembi Chanuprasenjit Bhagawatiankur Pan Saikia, Prasanta Pratim Bairagi, Ashish Kar	Research journal of agricultural sciences	https://www.researchgate.net/publication/370873444_Diversity_of_Aquatic_Macrophytes_of_Borbila_and_Silsako_Wetland_in_Assam	
129.	Therapeutic potential of cranberry for kidney health and diseases	Ruhul Aminjavad Sharifiâ€™ Radchandrashekar Thalluri, Anca Oana Docea	Efood	https://onlinelibrary.wiley.com/doi/10.1002/efd2.33	10.1002/efd2.33
130.	A brief knowledge about the relationship between smoking and blindness	Rakibul Hasan Khanrakibul Hasan Khan	Jundishapur journal of microbiology	http://ijmicrobiol.com/index.php/ijm/article/view/948	
131.	Therapeutic Potential of Musa balbisiana Colla as a Super Food â€”A Review	Pameena Narzary, Daisy Sharma	Indian journal of natural sciences	https://www.researchgate.net/publication/369119025_Therapeutic_Potential_of_Musa_balbisiana_Colla_as_a_Super_Food_-_A_Review	
132.	Therapeutic Potential of Musa balbisiana colla: with Reference to Its Antioxidant Properties	Daisy Sharma, Dr. Manash Pratim Sarma, Chandana Choudhury Barua, Pameena Narzary and Radalii Duarah.	Indian journal of natural sciences	https://www.researchgate.net/publication/369119218_Therapeutic_Potential_of_Musa_balbisiana_colla_with_Reference_to_Its_Antioxidant_Properties	
133.	Central Composite Designed Fast Dissolving Tablets for Improved Solubility of the Loaded Drug Ondansetron Hydrochloride	Chandrashekar Thalluriruhul Amin, Biplab Kumar Dey, Jithendar Reddy M, Amel Gacem, Talha Bin E, Arpita Roy, Mohammed S. A, Moamen S. R, Sher Zaman, And Amnah Mohammed A	Biomed research international	https://onlinelibrary.wiley.com/doi/10.1155/2022/2467574	https://doi.org/10.1155/2022/2467574

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134.	A gestational age related study of length and diameter of umbilical cord and their correlation with birth weight	J Gogoih Dasd Gogoi, D Pathak Das	International journal of medical science in clinical reasearch and review	https://ijmscrr.in/index.php/ijmscrr/article/view/216	https://ijmscrr.in/index.php/ijmscrr/article/view/216/140
135.	Influence of thermal diffusion in a non-linear mhd flow close to a stagnation point	Sujan Sinhakumud Chandra Nath	Mathematical statistician and engineering applications	https://philstat.org/index.php/MSEA/article/view/1133/689	
136.	Alangium chinense (lour.) Harms leaves with anti-inflammatory, antioxidant property: in vitro and in silico study	Mk Dekaraja Chakraborty, cc Kandar, Dr. Saikat Sen, Bj Sahariah	Asian journal of chemistry	https://www.researchgate.net/publication/362800479_Alangium_chinense_Lour_Harms_Leaves_with_Anti-inflammatory_Antioxidant_Property_in_vitro_and_in_silico_Study	https://doi.org/10.14233/ajchem.2022.23761
137.	Slot loaded patch antenna for communication in sband	Manik Chandra Borah, Anup Kr Bordoloi, Parimita Saikia , Bhairab Sarma	The seybold report	https://seyboldreport.org/article_overview?id=MDgyMDIyMTExNzlwNTQ3NTEx	10.5281/zenodo.7003477
138.	U-h shaped rectangular patch antenna for tuning resonant frequency in s-band	Parimita Saikia, Anup Kr Bordoloi, Manik Borah, Bhairab Sarma	The sebold report	https://seyboldreport.org/article_overview?id=MDgyMDIyMTUxNzlwNTQ3MTUzMTUz	10.5281/zenodo.6996079
139.	Integrated groundwater quality analysis using water quality index, gis and multivariate technique: a case study of guwahati city	Gilbert Hinge, Ashutosh Sharma, Biswadeep Bharali, Anupal Baruah	Environmental earth sciences	https://link.springer.com/article/10.1007/s12665-022-10544-0	https://doi.org/10.1007/s12665-022-10544-0
140.	Comparative analysis of the various biochemical compounds in fresh and dry form of labeo rohita, mystus tengara, ambylpharyngodon mola in ne india with special reference to the osazone formation	Ritimita Devijyotchna Gogoitumpa Kuri , Dr. Manash P. Sarma	Indian journal of natural sciences	https://www.google.com/search?q=Comparative+Analysis+of+the+Various+Biochemical+Compounds+in+Fresh+and+Dry+Form+of+Labeo+rohita%2C+Mystus+tengara%2C+Ambylpharyngodon+mola+in+NE+India+with+Special+Reference+to+the+Osazone+Formation&oeq=Comparative+Analysis+of+the+Various+Biochemical+Compounds+in+Fresh+and+Dry+Form+of+Labeo+rohita%2C+Mystus+tengara%2C+Ambylpharyngodon+mola+in+NE+India+with+Special+Reference+to+the+Osazone+Formation&gs_lcrp=EgZjaHJvbWUyBggAEEUYOdBCTI2MjIqMGoxNagCCLACAQ&sourceid=chrome&ie=UTF-8	
141.	Jamun Seed: A Review on Bioactive Constituents, Nutritional Value and Health Benefits	Yamini Takryszard Amarowiczmanpreet Kaur, Mool C. Jain, Mahesh Kumar Samota, Nirmal Kumar Meena, Gurpreet Kaur, Rajendra Kumar, Daisy Sharma, Josã© M. Lorenzo	Polish journal of food and nutrition sciences	https://journal.pan.olsztyn.pl/Jamun-Seed-A-Review-on-Bioactive-Constituents-Nutritional-Value-and-Health-	https://doi.org/10.31883/pjfns/152568

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142.	In-vitro anti-urolithiatic activity of extract of curcuma longa l rhizomes on dissolution of kidney stones	Mohidul Islamfaruk Alamsatyendra Deka, Moidul Islam Judder, Md. Rejwan Ahmed Choudhury, Ruhul Amin, Josef Yakin, Biplab Kumar Dey	International journal of biology, pharmacy and allied sciences (IJBPAS)	https://www.researchgate.net/publication/364314039_IN-VITRO_ANTI-UROLITHIATIC_ACTIVITY_OF_EXTRACT_OF_CURCUMA_LONGA_L_RHIZOMES_ON DISSOLUTION_OF_KIDNEY_STONES	https://doi.org/10.31032/IJBPAS/2022/11.8.6335
143.	Phytochemical and antiulcer potential of ethanolic leaf extract of heliotropium indicum linn.	Basak M, Saha S	Research Journal of Pharmacy and Technology		10.52711/0974-360X.2021.00343
144.	Green production of noncytotoxic rhamnolipids from jackfruit waste: process and prospects	Suresh Deka	Biomass Conversion and Biorefinery	https://link.springer.com/article/10.1007/s13399-022-02427-y	https://doi.org/10.1007/s13399-022-02427-y
145.	Multi-Epitope Vaccine Design against Monkeypox Virus via Reverse Vaccinology Method Exploiting Immunoinformatic and Bioinformatic Approaches	Nongmaithem Randhoni Chanu	Vaccines	https://pubmed.ncbi.nlm.nih.gov/36560421/	10.3390/vaccines10122010
146.	DEMYSTIFYING THE NEXUS BETWEEN OWNERSHIP STRUCTURE AND PERFORMANCE: A STUDY OF THE EMERGING MARKET	Biplab Kumar Dey	Corporate and Business Strategy Review		https://doi.org/10.22495/cbsrv3i2siart12
147.	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	https://journals.innovareacademics.in/index.php/ijap/article/view/42177/25366	https://doi.org/10.22159/ijap.2021v13i5.42177
148.	Potential inhibitors for FKBP51: an in silico study using virtual screening, molecular docking and molecular dynamics simulation	Prof. Narayan Chandra Talukdar	Journal of Biomolecular Structure and Dynamics	https://pubmed.ncbi.nlm.nih.gov/34709133/	10.1080/07391102.2021.1994877
149.	Circulating MicroRNA-122 as a Potential Biomarker for Hepatitis C Virus Induced Hepatocellular Carcinoma	Dr. Manash Pratim Sarma	International Journal of Cancer Management	https://brieflands.com/articles/ijcm-131221	https://doi.org/10.5812/ijcm-131221
150.	Potential of Curcuma longa Linn. (Turmeric) in management of Callosobruchus chinensis L.: In-silico analysis	SURAJ CHETRI	Journal of Biological Control,		10.18311/jbc/2022/31878
151.	In silico screening, TLC bioautography and in vivo studies of Zanthoxylum armatum DC (Indian Prickly Ash) extract as a potential neuroprotective agent	Atanu Bhattacharjee	South African Journal of Botany	https://www.sciencedirect.com/science/article/abs/pii/S0254629922004884	https://doi.org/10.1016/j.sajb.2022.09.009
152.	Retrieval of Turbidity and TDS of Deepor Beel Lake from Landsat 8 OLI Data by Regression and Artificial Neural Network	Arnob Bormudoi	Water Conservation Science and Engineering		https://link.springer.com/article/10.1007/s41101-022-00158-9
153.	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		https://link.springer.com/article/10.1007/s12524-020-01285-3#:~:text=Landslide%20susceptibility%20zonation%20(LSZ)%20map,to%20very%20

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					20high%20landslide%20susceptibility.
154.	Isotherm and Thermodynamic Studies of Biosorption of Brilliant Green on Surface of Low Cost Biomass Obtained from <i>Michelia champaca</i> Leaf	S. BARUAH	Asian Journal of Chemistry	https://asianpubs.org/index.php/ajchem/article/view/34_8_24	https://doi.org/10.14233/ajchem.2022.23864
155.	Biodegradation of hazardous naphthalene and cleaner production of rhamnolipids — Green approaches of pollution mitigation	Suresh Deka	Environmental Research	https://www.sciencedirect.com/science/article/abs/pii/S01393512200202X	https://doi.org/10.1016/j.envres.2022.112875
156.	HPTLC Finger print Analysis and In vitro Cytotoxicity Study against A549 cell line for Methanol and Chloroform extract of bark of <i>Erythrina stricta</i> Roxb.	MD Rejwan Ahmed Choudhury	Research Journal of Pharmacy and Technology	https://www.rjptonline.org/HTMLPaper.aspx?Journal=Research%20Journal%20of%20Pharmacy%20and%20Technology;PID=2022-15-10-19	10.52711/0974-360X.2022.00746
157.	Efficient Synthesis of Deuterium-Labelled Ganciclovir-d 5 and Its Prodrug Valganciclovir-d 5	K. Durgaprasad	Russian Journal of General Chemistry		https://link.springer.com/article/10.1134/S1070363222040168#citeas
158.	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		/ijcm.IJCM_104_21
159.	Earthworm community structure and population dynamics at Minkong forest of Mokochung, Nagaland, India	Dr. L.N. Kakati	Journal of Environmental Biology		https://www.researchgate.net/publication/365402921_Earthworm_community_structure_and_population_dynamics_at_Minkong_forest_of_Mokochung_Nagaland_India
160.	Ethnopharmacological-Based Validation of <i>Polyalthia suberosa</i> Leaf Extract in Neurological, Hyperalgesic, and Hyperactive Gut Disorders Using Animal Models	Ruhul Amin	Evidence-Based Complementary and Alternative Medicine		10.1155/2022/1345006

3. Status of Patents of different categories during the academic session 2022-23:

Name of the Patentor/ Copyright awardee	Patent File/Copyright Number	Title of the patent/Copyright
Dr.Indrani Barman	202331036976	Automated Water Harvesting Device
Dr. Ravikiram.S	202331036971	Exercising Device for Relieving Numbness
Dr.Dulumani Das	202331036973	Snack Processing Device
Dr. Manish Kumar Gautam	202331036972	Skin care product preparation Device
Prety Debbarma	202331036978	Food Cutting Assistive Device
Deepali Borthakur	202331036977	Modular Shelter for Birds
Deepali Borthakur	202331036974	Automated Pot Manufacturing Device
Trishna Saikia Baruh	202331036975	Wrist Exercising Device
Jasmin Islam, Ph Vivekanandini Devi, Manash Pratim Sarma , Daisy Sharma, Lolika Kiho	202331029465	Fruit containing food snack and a method of preparation thereof
Partha Pratim Kalita,Nayan Talukdar	202331026000	Anti-Diabatic Herbal Composition and Method for Preparation Thereof
Parismita A Kashyap, Smriti Rekha Das, Kumaresh Sarmah, Sunandan Baruah	202331004083	Method for fabrication of metal coated semiconductor Nano- material based patch Antenna
Mr. Prasanta Pratim Bairagi, Prof. (Dr.) Sunandan Baruah, Mr. Manash Jyoti Borah, Mr. Baharul Islam, Mr. Devabrata Sarmah	202333002914	Smart device for controlling liquefied petroleum gas leakage using IOT
Dr. Ganesh B R,Dr. Gopal Krishna Upadhyay,Dr. S. Sriram,Mr. Mriganka Mazumdar	202331000513	Head and Neck Massage System with Semi-Shadow Control
Mr. Baharul Islam, Dr. Manash Jyoti Borah ,Prof. Sunandan Baruah, Devabrata Sarmah	202231076636	Solar Grain Dryer With Moist Controller
Dr. S. Sriram	202231076395	Coordination Exercise Simulation Device
Dr. Manpreet Singh Manna, Dr. Sagarika Mahanta Das, Dr. Inderpreet Kaur	202231076396	Modular Card Holding Device
Pulsha Sangma, Dr. Inderpreet Kaur	202231076392	Cloth Ironing Assistive Device
Rima Paul, Deepali Borthakur, Dr. Inderpreet Kaur	202231076393	Sleep Assistive Device For Passengers
Dr. Manpreet Singh Manna, Shalaka Bhattacharyya	202231076394	Stuffed wrap preparation device
Dr. Manpreet Singh Manna, Dr. Snigdha Chakraborty	202231076402	Walking Assistive Device
Dr. Manpreet Singh Manna, Dr. Snigdha Chakraborty	202231076403	Hand Exercising Device

Name of the Patentor/ Copyright awardee	Patent File/Copyright Number	Title of the patent/Copyright
Jyotirmay Choudhury	202231076399	Automated Cutting Device For Baked Food Items
Dr. Smita Sarma, Deepali Borthakur	202231076398	Toddler Feeding Device
Dr. Manpreet Singh Manna, Deepali Borthakur, Dr. Inderpreet Kaur	202231076400	Door and Window Refurbishing Assistive Device
Partha Pratim Kalita	202231076401	Automated Epoxy Resin Application Device
Dr. Shilpisudha Goswami and Dr. Inderpreet Kaur	376189-001	Garment Steamer
Dr. Manpreet Singh Manna, Dr. Inderpreet Kaur, Deepali Borthakar and Shalaka Bhattacharyya	376191-001	Robot for serving food
Dr. Manpreet Singh Manna, Dr. Snigdha Chakraborty	376190-001	Resting Pad for Arms
Nabanita Daimary	376186-001	Clamp Meter
Manabjyoti Choudhury	376183-001	Water Dispenser for Pets
Dr. S. Sriram	376187-001	Stapler Pin Removing Device
Pulsha Sangma, Dr. Manpreet Singh Manna	376184-001	Device for Testing Alcohol Breath
Pulakesh Chetia	376185-001	Device for measuring distance using laser
Dr. Snigdha Chakraborty	376188-001	Floor Disinfectant Device
Pulakesh Chetia	376192-001	Paint Spray Gun
Dr. Partha Pratim Kalita	376193-001	Infusion Pump
Mr. Ankur Pan Saikia, Prof. Sunandan Baruah, Ms. Ananya Kalita	202231072786	Continous Assessment Model In Higher Education Institute
Gaurav kumar Bhargav, Dr. Saikat Sen, Dr. V. Chitra, Dr. Pallab Kalita	202231055172	Pharmacotherapeutic Polyphenols Used Against Cognitive Declination In Down Syndrome
Dr. S.Sriram	202231049079	Effects Of Water/Cement Ratio And Curing Time On The Carbonation Process Of Reinforced Concrete Structures
Mr. Prasanta Pratim Bairagi, Mala Dutta	202231068919	Process For Selection Of Region Head Of Region In Wsn
Mr. Prasanta Pratim Bairagi	202231069707	System For Plant Disease Detection And Remedy Recommender
Mr. Ankur Pan Saikia, Prof. Sunandan Baruah, Ms. Ananya Kalita	202231067943	Id-Based Pixel-Secured System With Data Integrity For Cloud-Based Applications
Mr. Ankur Pan Saikia, Prof. Sunandan Baruah, Ms. Ananya Kalita, Dr. Balagopal Unni	202231068097	Smart Bio-metric Eye To Overcome Blindness
Dr. Biswa Prasun Chatterji	373909-001	Food Chemical Detecting Device

Name of the Patentor/ Copyright awardee	Patent File/Copyright Number	Title of the patent/Copyright
Dr. Bhola Chourasia Mridu Pawan Rabha Mr. Jyotirmay Chourdary	373907-001	Vegetable Cutter and Peeler
Mrinal Kumar Das	373910-001	Lawn Mower
Dr. Inderpreet Kaur, Dr. Manpreet Singh Manna and Deepali Borthakur	373908-001	Fish Locating Device
Gaurav kumar Bhargav, Dr. Saikat Sen, Dr. Bhargab Jyoti Sahariah, swar Hazarika , Chanam Melody Devi , Tina Bania, Trideep Saikia, Banshongdor H. Mawlieh	202231062416	Surgical stiletto for maxillary dissection of Danio rerio for Neuronal studies
Minakshi Bhattacharjee,Rosmund Jyrwa, Navaneeta Kalita, Lamlynti Langbang	202231061963	Roadway Monitoring And Management Device
Dr.Papia Dutta,Dr. Jyotchna Gogoi	202231061964	Biogas Production Device
Dr. Durgaprasad Khemisetti, Joydeep Goswami	202231061965	Automated Snack Preparation Device
Dr. Kakoli Das	202231061966	Multi-Purpose Writing Device
Dr. Kakoli Das	202231061967	Hand Mobility Assistive Device
Partha pratim Kalita, Deepali Barthakur, Nayan Talukdar,Manash pratim Sarma, Rajeev Sarmah	202231061968	Automated Coffee Bean Processing Device
Gaurav kumar Bhargav, Dr. Saikat Sen, Dr. V. Chitra, Dr. Pallab Kalita	202231056178	Epigallocatechin 3 Gallate Inhibits Inflammatory Mediators In Transgenic Zebrafish Model.
Dr. Bhola Chourasia, Dr. Jyotiprasad Kalita,Dr. Santosh Kumar Upadhyay, Dr. Sudhanshu Verma	202231050487	System For Customer Relationship Management
Dr. Saras Verma,Dr. Vipin Kumar Saini,Dr. Santosh Kumar Upadhyay,Prof. (Dr.) Ajitabh,Mr. Devesh Pratap Singh,Mr. Mahesh Mishra,Mr. Naveen Rana,Mr. Gaurav Mamgain	202211055436	An IOT based hotel management system for Hospitality and Tourism Industry
Dr. Saras Verma,Dr. Santosh Kumar Upadhyay, vipimn Kumar saini, Prof. (Dr.) Ajitabh, Mr. Devesh Pratap Singh, Dr. Manish Rai,Mr. Mahesh Mishra, Mr. Naveen Rana, . Mr. Gaurav Mamgain	202211055491	A supervised machine learning based system and method for Tourism Information and Reservation
Dr. Seema sharma	202241055485	Smart Detection of Tax Fraud Based on Machine Learning System
Dr. Rishi Chakravarty	202221054875	A System For Evaluating Role of Hr Practices in Employee Engagement and Retention

Name of the Patentor/ Copyright awardee	Patent File/Copyright Number	Title of the patent/Copyright
Dr. Durgaprasad kemiseti,dr. Faruk alam	202241053892	Benzimidazolyl Derivatives and Method of Preparation Thereof
Prof. Sunandan Baruah, Devabrata Sarmah	202231052410	System For Detection of Metal Ions in Aqueous Media Using Functionalized Nanoparticles
Dr. Bidyut Bikash Das	202231052399	Artificial Intelligence Based Smart Marketing Management for Customer Engagement
Daisy Sharma, Manash Pratim Sarma, Nanam Ronya, Chandana Choudhury Baruah	202231038599	Low Cost Composite Synergistic Weaning Formulation
Daisy Sharma, Manash Pratim Sarma, Akumnaro Jamir, Chandana Choudhury Baruah	202231041720	Composite Multipurpose Synergistic Flour
Dr. Rishi Chakravarty, Dr. Rachana Saxena, Dr. Charu Agarwal,Mr. Servesk Kumar Sheetal,. Dr. Kumar Gaurav,Dr. M. S. R. Sesha Giri, Dr. Arindam Ghosh, Mr. Sourav Kumar Das, Dr. Mainak Chakraborty,Dr. Ekta Chakravarty	202241044181	A new Management Approach to Knowledge Creating Strategic Decision- Making in organizations
Dr. Saras Verma,Dr. Dhananjay Kumar Srivastava., Dr. Santosh Kumar Upadhyay,Mr. Manish Rai, Mr. Gaurav Mamgain, Ms. Deepti Bhatt,Mr. Mahesh Mishra	202211044707	Hospitality Management System in Hotel and Tourism Industry
Prof. Sunandan Baruah	202231044773	Detection of Nitrogen Dioxide at Ppb Level in the Environment at Room Temperature
Ritismita Devi, Dr. Manash P Sarma, Dr. Daisy Sharma, Puja Dev	202231038059	Development of Nutrient and Fibre Rich Healthy Cookies by Incorporating Bamboo Shoot Powder

Start-up incubation in AdtU:

In alignment with the emphasis on promotion of innovation and entrepreneurship, listed in NEP 2020 Policy, AdtU has laid importance on these and has worked out strategy. Accordingly, the university has constantly engaged in organization session on ideation, workshop, and motivation to mobilize student's communities towards this. Another approach has been to create incubation facilities inside the campus and provide opportunities to prospective entrepreneurs who have business idea and innovative product to incubate. So far, during the year, 9 such start-ups have been incubated in AdtU's incubation facility and students now have opportunity to be inspired by these examples. The list of start-ups incubated on the campus is given below:

Name of the start-up	Nature of start-up	Year of commencement	Contact information of the promoters
Priso Ayurveda	Personal Care	2022-23	Mr. Pankaj Kumar Singh Email: pankaj@buypriso.in Phone No: 9864119997
Wholesome Ventures	Food processing	2022-223	Mr. Nashat Hussain Email: wholesomeventures1@gmail.com Phone No: 9864119997
Nanoinnove Pvt Ltd	Agritech (Nanotechnology)	2022-2023	Mr. Debabrata Sarmah Email: devabratasarmah@gmail.com Phone No: 8720929727
Purvanchal Engineering Systems Private Limited	Electronics Manufacturing	2022-2023	Mr. Ashique Anowar Email: purvanchalengineeringsystems@gmail.com Phone 6002920374
Heal Bridge Pvt Ltd	Healthcare	2022-2023	Mr. Sumesh Chettri Email: sumeshchettri84@gmail.com Phone No: 9475552670
AlternatEV Solutions Pvt Ltd	EV Charging	2022-2023	Mr. Sahid Ansari Email: info@apluscharge.in Phone No: 7099018180
Symbica Private Limited	Medical Device	2022-2023	Mr. Nilotpal Baruah Email id-nilutpalbaruah986@gmail.com Phone No-8473891852
Fuloni LLP	Gardening	2022-2023	Mr. Hasan Al Mehdi Email: hassanalmehdi@gmail.com Phone No: 7259192310
Jolkuwori LLP	Aquaculture	2022-2023	Mr. Dipankar Kashyap Email: dipankash516@gmail.com Phone No: 9101325525

Highlights of few Patents filed and published during academic session 2022-23

A. Process for Double spot Friction Stir Welding and Double spot Zigzag Friction Stir Welding

Patent app no. 201831045232

Patent Journal no. 03/2021

Page 2849, Dated 15/01/2021

Inventor

Manash J Borah

Assistant Professor, Mechanical Engineering

About the invention

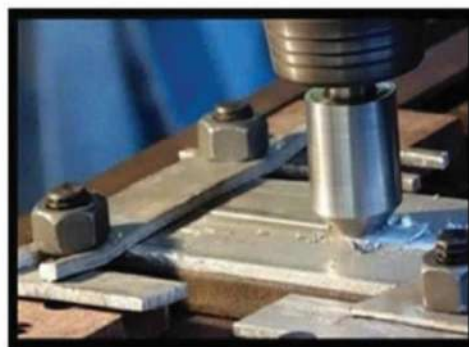
- The present invention is directed to develop process for Double Spot Friction Stir Welding(DSFSW) and Double Spot Zigzag Friction Stir Welding(DSZFSW) to achieve higher strength in welded materials

Key Feature

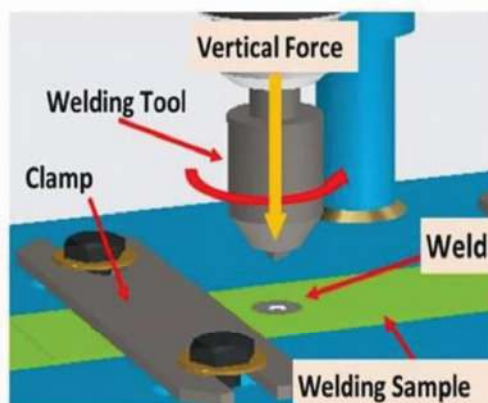
- The invention enables FSSW technique applicable for low power machines or machines with low RPM
- The invention has targeted to employ FSSW in small scale industries like, the manufacture of kitchen utensils where the material of construction is mostly aluminum alloy (Al) which are usually subject of riveting at the joints

Application

- Aluminium based Kitchen Utensils
- Automobile
- Alternate to rivets



Caption



Caption



Caption



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details	
APPLICATION NUMBER	201831045232
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/11/2018
APPLICANT NAME	ASSAM DOWNTOWN UNIVERSITY
TITLE OF INVENTION	PROCESS FOR DOUBLE SPOT FRICTION STIR WELDING AND DOUBLE SPOT ZIGZAG FRICTION STIR WELDING.
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	anjanonline@vsni.net
ADDITIONAL-EMAIL (As Per Record)	info@ipindiaaasa.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	26/11/2019
PUBLICATION DATE (U/S 11A)	15/01/2021
REPLY TO FER DATE	12/08/2021

A. Detection Of Nitrogen Dioxide At Ppb Level In The Environment At Room Temperature

Patent app no. 202231044773
 Patent Journal no. 32/2022,
 Page 50705, Dated 12/08/2022

Inventor

- 1) Dr. Rashi Borgohain
 Associate Professor, Assam Engineering College, Jalukbari Guwahati Assam India 781013
- 2) Dr. Sunandan Baruah
 Professor, Assam Down Town University, Panikhaiti, Guwahati Assam India 781026

About the invention

- The objective of the invention is to provide sensors to detect nitrogen dioxide at room temperature much below danger level specified by standards using ZnO-ZnS core-shell nanostructure.

Key Features

- The sensor can operate at room temperature.
- It will be installed outdoor to detect NO₂ present in the atmosphere.
- It can detect NO₂ at ppb level much below the danger limit.

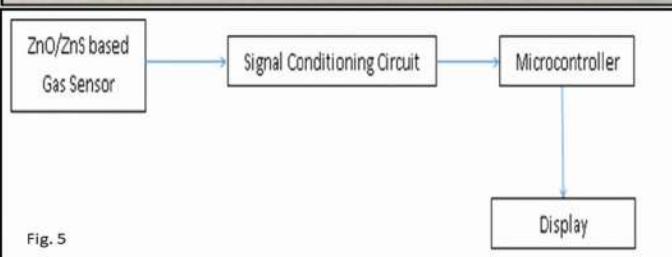
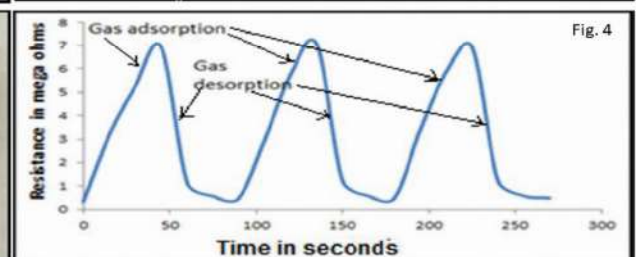
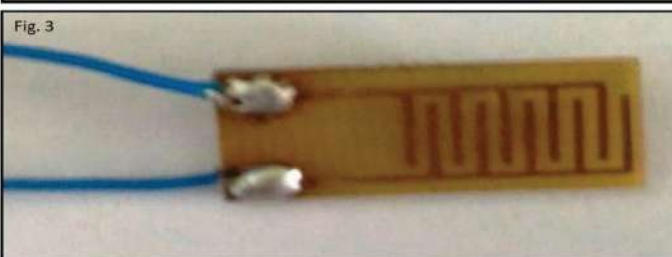
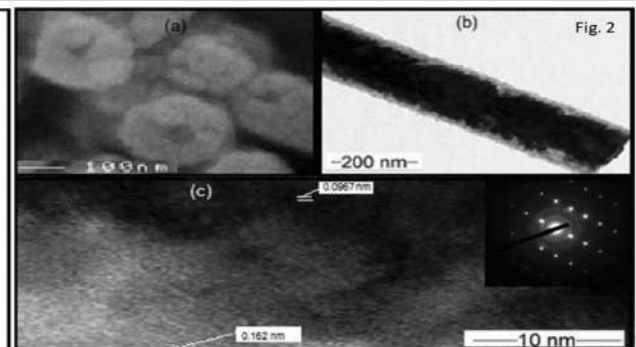
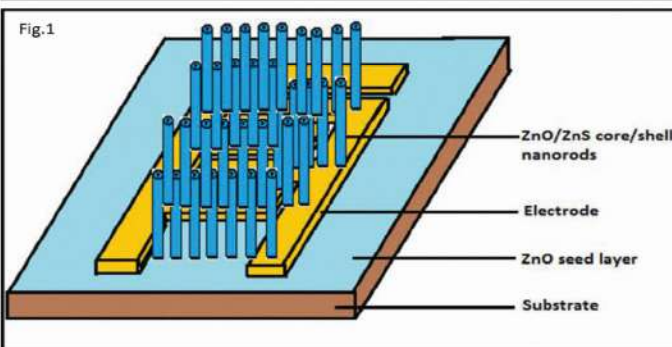


Fig. 1 Sensor physical structure
 Fig. 2. Characterization results of ZnO/ZnS core shell nanostructure
 Fig. 3. The Sensor with naked eye
 Fig. 4. Performance of the sensor in presence of gases
 Fig. 5. The sensor system

(1) PATENT APPLICATION PUBLICATION (21) Application No.202231044773 A
 (19) INDIA
 (22) Date of filing of Application : 05/08/2022 (43) Publication Date : 12/08/2022
 (54) Title of the invention DETECTION OF NITROGEN DIOXIDE AT PPB LEVEL IN THE ENVIRONMENT AT ROOM TEMPERATURE
 (51) International Classification: B81Y0640000000, G01N0633000000, B01D0053520000
 (52) International Application No. PCT/ IN/2019/01017900
 (53) International Publication No. : NA
 (54) Patent of Addition to Application Number : NA
 (55) Filing Date : NA
 (56) Divisional to Application Number : NA
 (57) Filing Date : NA
 (71) Name of Applicant : 1) Assam Engineering College, Jalukbari Guwahati Assam India 781013 Guwahati
 Name of Applicant : NA
 Address of Applicant : NA
 (72) Name of Inventor : 1) Dr. Rashi Borgohain, Assam Engineering College Road, Jalukbari Guwahati Assam India 781013 Guwahati
 2) Prof. Sunandan Baruah, Assam Down Town University, Saikar, Panikhaiti, Guwahati Assam India 781026 Guwahati
 (57) Abstract : DETECTION OF NITROGEN DIOXIDE AT PPB LEVEL IN THE ENVIRONMENT AT ROOM TEMPERATURE. A method for fabricating sensors for measuring a level of nitrogen dioxide is disclosed. The method comprises synthesizing zinc oxide (ZnO) seed nanoparticles, growing zinc oxide (ZnO) nanorods, growing zinc sulphide (ZnS) shell over the zinc oxide nanorods, and fabricating the sensors using growth of ZnO/ZnS core-shell nanorods, wherein the sensors are configured to measure level of nitrogen dioxide at parts per billion (ppb) level at room temperatures. [Figure: 1]
 No. of Pages : 19 No. of Claims : 10

B. New Framed E-Rikshaw

Design no. 340363-001

Patent Journal no. 06/2022

Page 9180, Dated 11/02/2022

About the invention

- For green and sustainable development, the e-vehicle is an emerging concept in the automotive industry and also gaining a huge momentum in India in the recent years.
- A Safer e rickshaw model has been designed with low Centre of gravity as an alternative to conventional E-Rickshaw

Inventor

Dr. Manash J Borah
Assistant Professor, Mechanical
Engineering, AdtU
Mr Rocktutpal Borah
Assistant Professor, Mechanical
Engineering, AdtU



Key Feature

- Decrease upfront cost of e rickshaw
- Low Centre of gravity.
- Negligible maintenance cost and low running cost.
- Better Comfort for the passenger as compared to Conventional Rickshaw

Application

Alternative to Conventional Rickshaw

Caption



C. Multifunctional seed Sowing machine

Patent app no. 340364-001
Patent Journal no. 11/2022,
Page 17898, Dated 18/03/2022

Inventors

Pulakesh Chetia
Manash J Borah

Assistant Professor, Mechanical Engineering

About the invention

- The present invention is named as **Multifunctional Seed Sowing Machine**, which is used for placing seeds in the soil at adjustable distance and depth for good germination of seeds. It has been observed through study that in simple chain and belt drive transmission type of mechanisms, the distance between the seeds to be sowed is fixed and farmers get difficulty in controlling seed depth and maintaining recommended seed spacing.

Key Feature

- Derailleur gear mechanism in seed sowing machine is a new innovation replacing the simple chain and belt drive transmission mechanisms which is noisy in operation and have no flexibility.
- With the use of this novel derailleur gear mechanism, now the seeds can be sowed at adjustable distance and depth.
- The presence of sprinkler system, tillage tool and leveller in a single machine makes it a multifunctional one.

Application

- **Agricultural purposes**

DESIGN NUMBER	340364-001
CLASS	15-03
1. ASSAM DOWN TOWN UNIVERSITY GANDHINAGAR, PANIKHAITI, GUWAHATI - 781026, INDIA 2. PULAKESH CHETIA HATIMURA PATH, P.O. MANCOTTA, DIBRUGARH, ASSAM - 786003, INDIA 3. MANASH JYOTI BORAH NEAR RAJA PUKHURI, PANBARI, PANITOLA, P.O. PANITOLA, TINSUKIA, ASSAM - 786183, INDIA	
DATE OF REGISTRATION	09/03/2021
TITLE	MULTIFUNCTIONAL AGRICULTURAL MACHINE
PRIORITY NA	



Perspective View



Back View



Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details	
Application Number:	340364-001
Ctr Number:	201401
Ctr Date:	09/03/2021 13:56:35
Applicant Name:	1. Assam down town University 2. Pulakesh Chetia 3. Manash Jyoti Borah
Design Application Status	
Application Status:	Design Accepted and Published. Journal No is 11/2022 and Journal Date is 18/03/2022
Back	

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no. 22235. The information under "Design Application Status" is dynamically retrieved and is under testing. Therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2001. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email id:
Design Office, Kolkata : controllerdesigns.ip@nic.in
Controller General of Patents, Designs and Trademarks

D. Smart Device For Controlling Liquefied Petroleum Gas Leakage Using Iot

Patent App no. 202333002914

Patent Journal no. 03/2023

Page 4976, Dated 20/01/2023

About the invention

The present invention is directed to develop a smart device for controlling the LPG leakage by detecting the leakage and shut down the gas supply in real time. This system is also directed to ensures that the user is notified of the gas leakage by using alarm/SMS and prompted to take necessary measures.

Key Features

The invention enables to

- Monitoring the gas leakage.
- Alert the user by sending SMS for gas leakage.
- Controlling the gas leakage (If leakage detects turn off the gas supply).

Applications

- Household
- Industry

Inventors

Mr. Prasanta Pratim Bairagi

Asst. Prof., Computer Science & Engineering, AdtU

Prof. (Dr.) Sunandan Baruah

Prof., Computer Science & Engineering, AdtU

Dr. Manash Jyoti Borah

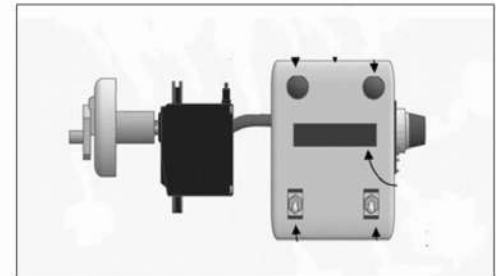
Asst. Prof., Mechanical Engineering, AdtU

Mr. Baharul Islam

Asst. Prof., Electronics & Communication Engineering, AdtU

Mr. Devabrata Sarmah

Research Assistant, Centre of Excellence in Nanotechnology (CoEN)



Proposed System Design



Developed System



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202333002914
APPLICATION TYPE	PATENT OF ADDITION FOR ORDINARY APPLICATION
DATE OF FILING	14/01/2023
APPLICANT NAME	ASSAM DOWN TOWN UNIVERSITY
TITLE OF INVENTION	"SMART DEVICE FOR CONTROLLING LIQUEFIED PETROLEUM GAS LEAKAGE USING IOT"
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	pooja@innoveintellects.com
ADDITIONAL-EMAIL (As Per Record)	pujagr@gmail.com
E-MAIL (UPDATED Online)	
PARENT APPLICATION NUMBER	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/03/2023
PUBLICATION DATE (U/S 11A)	20/01/2023

E. Solar Grain Dryer With Moist Controller

Patent app no. 202231076636

Patent Journal no. 01/2023,

Page 816, dated 06/01/2023

Inventors

Mr. Baharul Islam

Assistant Professor, ECE

Dr. Manash J Borah

Assistant Professor, Mechanical Engineering

Mr. Devabrata Sharma

Research Assistant, COEN, AdtU

Prof.(Dr.)Sunandan Baruah

Director, Research & Innovation, AdtU

About the invention

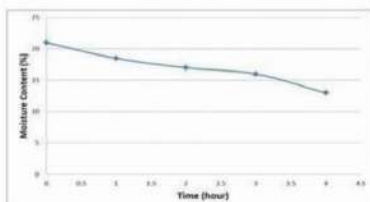
- In this invention, microcontroller is used to control whole the process. Load cell senses the weight and supplies an electrical signal to HX711 load Amplifier Module. The microcontroller calculates the output of HX711 and converts that into the equivalent moisture content in percentage and shows it on LCD.

➤ Key Feature

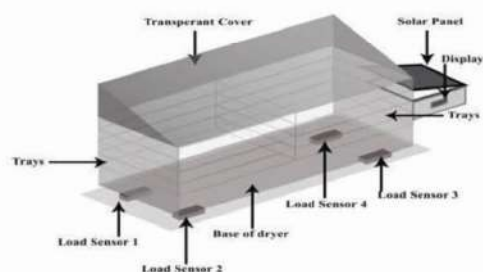
- Drying of paddy grains by solar dryer without breaking of paddy grains.
- Controls the moisture content of paddy grains in the drying process by employing an automated process.

Application

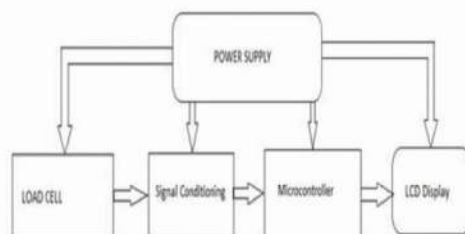
- The system dries the paddy grain without breaking it.
- Desired moisture content in paddy grain can be controlled by the user.



Time vs. Moisture reduction



The schematic diagram of solar dryer



Block diagram of moisture measuring system

Application Details	
APPLICATION NUMBER	202231076636
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/12/2022
APPLICANT NAME	ASSAM DOWN TOWN UNIVERSITY
TITLE OF INVENTION	SOLAR GRAIN DRYER WITH MOIST CONTROLLER
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	gajpa@innovations.in
ADDITIONAL E-MAIL (As Per Record)	pujari@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (As Per IPR)	06/01/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination
	View Documents
	➔ File ➔ Published ➔ RQ Filed ➔ Under Examination ➔ Disposed

Entrepreneurship and Start-up Activities

AdtU is aggressively working to intensify entrepreneurship and start-up activities spearheaded by the Directorate of Innovations, Start-up and Acceleration (DISA). In its efforts to build the ecosystem for this purpose, DISA organizes different events including expert lecture, orientations, start-up meets, entrepreneurship awareness program and organization idcathoris etc. The following are examples of events organized during 2022-23.

A. Expert talk on 'TRL, Commercialization of Lab technology and Tech transfer'.

On February 15, 2023, AdtU hosted an expert talk titled 'TRL, Commercialization of Lab Technology, and Tech Transfer,' delivered by Dr. Pranab Jyoti Das, Principal Scientist at NRCP, Rani, Guwahati. The session, attended by 120 students, 2 teachers, and university administration, offered a thorough exploration of the process from invention to market, highlighting the importance of Intellectual Property Rights (IPR), including patents, GI tags, trademarks, trade secrets, and copyrights. Dr. Das illustrated these concepts with examples from his own lab, showing successful technology transfer and market release strategies. The interactive Q&A session addressed topics such as patent publication and AI technology challenges, providing students with critical insights into intellectual property and commercialization. The event concluded with a vote of thanks, leaving participants with a deeper understanding of technology readiness levels and the impacts of plagiarism.

Online and Physical mode Session for AdtU Students and Faculties



IIC Talk on

TRL, Commercialisation of Lab Technology and Tech Transfer

15th
Feb 2023
11:00 AM

Venue: Block A 6th Floor
Auditorium



Resource Person

DR PRANAB JYOTI DAS

Principal Scientist (Animal Genetics and Breeding)
National Research Centre on Pig (NRCP)
Rani, Guwahati – 781131, Assam

B. Leadership Talk with Prof. T. G. Sitharam, Hon'ble Chairman, All India Council for Technical Education (AICTE)



AdtU is aggressively working to intensify entrepreneurship and start-up activities spearheaded by the Directorate of Innovations, Start-up and Acceleration (DISA). In its efforts to build the ecosystem for this purpose, DISA organizes different events including expert lecture, orientations, start-up meets, entrepreneurship awareness program and organization idcathoris etc. The following are examples of events organized during 2022-23.

C. Orientation Session on "IIC 5.0 & Features"

On January 11, 2023, Assam down town University hosted a virtual orientation session on "IIC 5.0 & Features," organized by IIC-Assam down town University and down town Venture Labs. The session aimed to familiarize 48 students, 2 teachers, and 2 non-teaching staff with the new features of IIC 5.0, including activity levels and weightage, gamification elements, and an improved user interface. Conducted by Mr. Dipan Kumar Sahu, Assistant Innovation Director at MoE's Innovation Cell and AICTE, the event provided valuable insights into IIC 5.0's programs and schemes, such as the IIC Idea Camp and Startup Challenge. Attended by over 1,000 participants nationwide, the session was well-received, with attendees expressing enthusiasm about leveraging the platform to advance innovation and entrepreneurship in their institutions. The event successfully met its objective of equipping participants to effectively utilize IIC 5.0 for their innovation initiatives.

Via **webex** INSTITUTION'S INNOVATION COUNCIL

- About My Institute
- Manage Activity
- Handholding and Capacity Development
- Innovation & Start-up Support**
 - YUKTI Innovation Repository
 - YUKTI Innovation Challenge
 - YUKTI Tech. Transfer
- Referral & Linkage
- Help Desk
- Information Dissemination

YUKTI Innovation Challenge 2023

A 360 Degree Experiential Learning program for Potential Student Innovators and Faculty

4651+ Start-ups
19751+ Prototypes
29444+ Ideas
1061+ Institutes

Key Statistics:
 143 Institutions from IIC
 143 Institutions from IIC
 4,800 Ideas and POCs from IIC
 29,776 Ideas, POCs and Prototypes from IIC

Process Flow:
 1. Idea Generation
 2. Prototyping
 3. Business Plan Development
 4. Pitching
 5. Funding Assistance
 6. Incubation Linkage

- IIC Institutions to nominate promising Student and Faculty Innovations (TRL 4 and above).
- A 6 Month Long Mentoring & Handholding Support
- Incubation Linkage and Funding Assistance up to Rs. 5.00 lakhs /Innovation to 200 Innovations

Organized by IIC-Assam down town University and down town Venture Labs, the session engaged 46 students, 2 teachers, and 2 non-teaching staff for 30 minutes. Prof. Sitharam shared his extensive knowledge on leadership in technical education, emphasizing visionary leadership's role in fostering innovation and excellence. He provided practical advice on navigating academic and professional paths, inspiring students to set ambitious goals and diligently pursue their career aspirations. The session effectively enriched participants' educational experience and highlighted the value of connecting students with influential leaders through online platforms.

D. Youth and Social Entrepreneurship

On February 11, 2023, Assam down town University hosted a session on "Youth and Social Entrepreneurship" in Auditorium-II, organized by IIC-Assam down town University and down town Venture Labs. The event featured Prof. Abhigyan Bhattacharjee, Professor & Head of the Department of Management at North-Eastern Hill University, who shared his extensive knowledge and personal journey in social entrepreneurship. Prof. Bhattacharjee highlighted the impact of social ventures and provided practical advice on developing and launching such initiatives. The session, attended by 44 students, 3 teachers, 1 non-teaching staff, 1 university administrator, and 1 invited guest, fostered a dynamic exchange of ideas and inspired participants to leverage their entrepreneurial skills to address societal challenges. The interactive nature of the event facilitated networking and knowledge sharing, ultimately motivating the youth to actively engage in social entrepreneurship and contribute positively to their communities.



E. Entrepreneurship Journey- A Roller coaster

On February 6, 2023, Assam down town University hosted the session "Entrepreneurship Journey - A Roller Coaster" in Auditorium-I, organized by IIC-Assam down town University and down town Venture Labs. The event featured Dr. Bhaskar Bora, an esteemed entrepreneur and motivational speaker, who shared his inspiring journey through entrepreneurial highs and lows, highlighting his resilience and adaptability following personal and professional challenges. With 47 students, 15 teachers, 3 non-teaching staff, 2 university administrators, and 1 invited guest in attendance, the session offered valuable insights into the entrepreneurial process, emphasized the importance of embracing failure, and fostered networking opportunities. Dr. Bora's story of overcoming adversity and his philanthropic efforts encouraged participants to pursue their ventures with determination and a broader social impact in mind.



F. Local Start Ups' Meet

On October 16, 2022, Assam down town University, in collaboration with IIT Kharagpur, hosted the "Local Start Ups' Meet" to provide a platform for local entrepreneurs to pitch their ideas to a distinguished panel of business experts. The event, supported by a sponsorship of ₹1,56,750 from the university, featured notable figures such as Prateek Agarwal, Deepak Nagpal, and Suman Paul, among others. Commencing with a felicitation ceremony, the event included pitching sessions where startups presented their ideas for feedback, and workshops led by Ashwani Kumar and Satyam Sarma on startup execution and navigating the post-product-market fit journey. The day concluded with a panel discussion offering valuable insights and a vote of thanks from IIT Kharagpur. The meet successfully facilitated networking and provided essential guidance, fostering connections and support for the participating startups.



G. ENTREPRENEURSHIP AWARENESS DRIVE

On October 14, 2022, Assam down town University, in collaboration with IIT Kharagpur, hosted the "Entrepreneurship Awareness Drive" to ignite the entrepreneurial spirit among students. The event, which was supported by down town Venture Labs, featured a series of inspiring talks by prominent speakers including Atreyee Barooah Thekedath, Founder of Webcom and Director at Apollo Hospital, who provided initial guidance on starting entrepreneurial ventures; Shalini Goyal Bhalla, Managing Director at ICCE-NITI Aayog, who discussed the circular economy; and Sumit Agarwal, Founder of PR Signal and a Differently Abled TEDx Speaker, who shared his motivational success story. The event, attended by 135 students, 30 teachers, 20 non-teaching staff, and 25 university administrators, fostered an engaging and interactive environment, leading to a high level of student interest and motivation. The session concluded with a vote of thanks, leaving participants inspired and better informed about entrepreneurial opportunities and strategies.



A. Faculty Development Program on CO-PO Mapping and Attainment Calculations based on CO-PO Mapping.



On July 1, 2023, the Internal Quality Assurance Cell (IQAC) of AdtU successfully conducted a Faculty Development Program (FDP) focused on CO-PO (Course Outcome-Program Outcome) mapping and attainment calculations. The event featured two key sessions led by Prof. Deben Chandra Baruah, Professor of Energy Technology at Tezpur University. The first session provided an in-depth understanding of Outcome-Based Education and the importance of CO-PO mapping, while the second session offered hands-on training in mapping CO-PO and calculating attainment to tailor curriculum across different programmes. The FDP was highly effective in enhancing participants' understanding of CO-PO mapping and its practical applications, particularly with reference to imparting holistic education enshrined in NEP 2020.

B. Expert Talk on “An Overview of Systemic Review and Meta-analysis” under intellectual lecture series on “FutureRx: Research and Beyond.”




Organized by:
Faculty of Pharmaceutical Science
Assam down town University

Expert Talk:
An Overview of Systematic Review and Meta-analysis

Intellectual Lecture Series on
'FutureRx: Research and Beyond'

Expert Talk #1

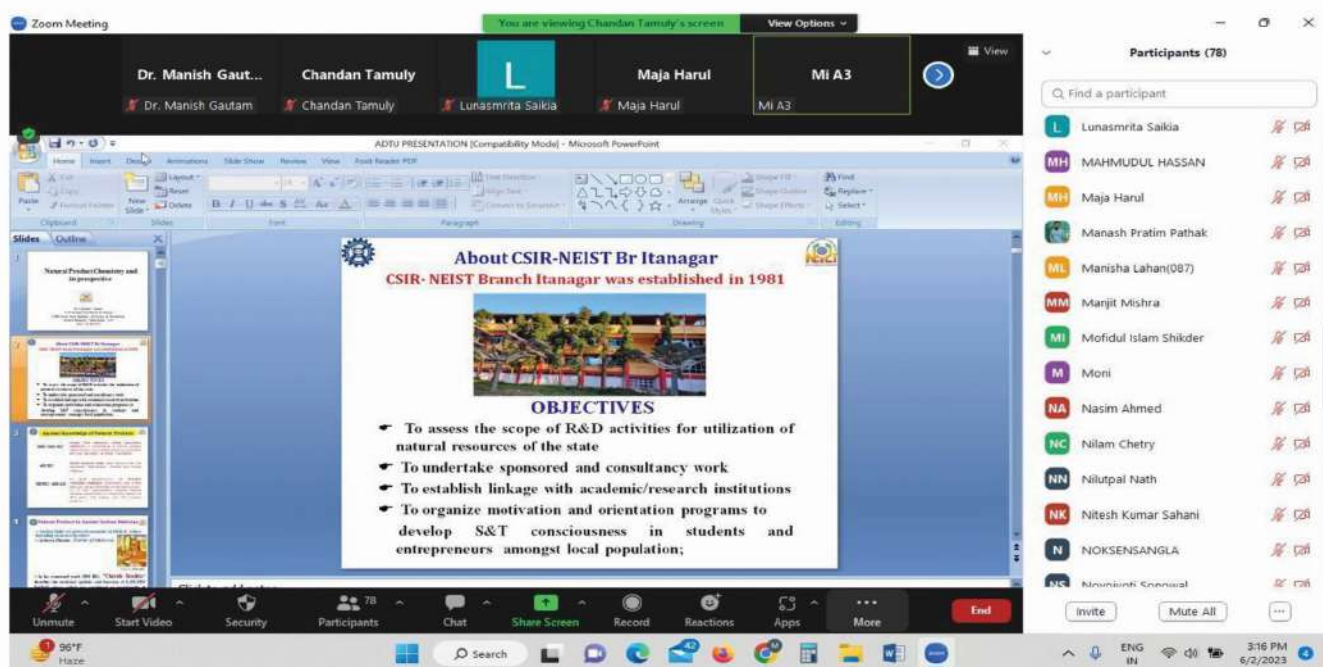


Dr. Krishna Undela
Assistant Professor, National Institute of Pharmaceutical Education and Research Guwahati (NIPER), Guwahati-781101, Assam, India

27th | MAY 2023
02:00 PM to 03:30 PM

On May 27, 2023, the Faculty of Pharmaceutical Science at Assam down town University organized an insightful Expert Talk titled “An Overview of Systemic Review and Meta-analysis” under the intellectual lecture series “FutureRx: Research and Beyond.” The event, held in Auditorium II, featured Dr. Krishna Undela from NIPER Guwahati, who delivered a keynote address on the significance and methodology of systematic reviews and meta-analyses. The program included detailed discussions on methodological considerations, statistical techniques, and practical workshops, addressing both clinical and social sciences applications. Panel discussions provided additional perspectives on integrating these methodologies into research and practice. The event successfully enhanced attendees' understanding and skills in conducting systematic reviews and meta-analyses, promoting interdisciplinary collaboration and evidence-based decision-making.

C. Webinar on 'Natural Product Chemistry and its Prospective' Expert Talk-3, under Intellectual Lecture Series on FutureRx: Research and Beyond."



On June 2, 2023, the Faculty of Pharmaceutical Science at Assam down town University hosted an engaging webinar titled "Natural Product Chemistry and its Prospective," as part of the "FutureRx: Research and Beyond" Lecture Series. The online event featured Dr. Chandan Tamuly, Sr. Principal Scientist at CSIR-North East Institute of Science & Technology, who delivered an insightful expert talk on the role of natural product chemistry in modern drug discovery. Dr. Tamuly detailed the stages of natural product drug discovery, including collection, identification, extraction, and bioactivity evaluation, while highlighting the significant potential of North East India's biodiversity. The session, moderated by M. Pharm. student Ms. Lunasmrita Saikia, included a dynamic Q&A session and was well-received by 70 participants, including students, faculty, and staff. The event successfully enhanced understanding of natural product chemistry, promoted appreciation of traditional medicines, and encouraged future research and collaboration in this field.

C. Webinar on 'Natural Product Chemistry and its Prospective' Expert Talk-3, under Intellectual Lecture Series on FutureRx: Research and Beyond.”



On December 7, 2022, Assam down town University hosted a One Day Symposium on “Understanding Disability” in the A Block auditorium. The event featured key presentations by Mrs. Ketaki Bardalai, Executive Director of SHISHU SAROTHI Centre for Rehabilitation and Training for Multiple Disability, and Miss Amvalika, Deputy Director Advocacy. The symposium, attended by approximately 250 students and faculty members, included a welcome speech, an introduction to the topic, a workshop demonstration, and an interactive Q&A session. The event aimed to raise awareness about disability, its societal impacts, and best practices for interacting with individuals with disabilities. The session successfully enhanced participants' understanding and empathy towards disabilities, fostering a more inclusive and supportive environment.

E. Indian Traditional Knowledge Systems and Practices with Specific Reference to North Eastern Region



On April 8, 2023, the Faculty of Science and the Faculty of Humanities and Social Sciences at Assam down town University jointly organized a one-day seminar titled “Indian Traditional Knowledge Systems and Practices with Specific Reference to North Eastern Region.” The day long event featured a diverse array of speakers, including Dr. Manzil Hazarika from Cotton University and Dr. R.C. Deka, Vice-Chancellor of Cotton University. The seminar explored various aspects of traditional knowledge and practices, highlighting their relevance and application in modern contexts. Presentations covered topics such as the impact of traditional cooking methods on nutrient preservation, the evolution of traditional practices, and the integration of traditional herbal knowledge with contemporary scientific approaches. The sessions underscored the importance of preserving and utilizing traditional knowledge for societal and economic benefits. With an engaging program and insightful discussions, the seminar successfully enhanced participants' understanding of traditional knowledge systems and their significance, marking it as a valuable academic endeavor.

F. Harinarayan Dutta Baruah Memorial Lecture



On 17th March, 2023, Assam down town University hosted a distinguished event to commemorate the death anniversary of Sahityaratna Harinarayan Dutta barua and to inaugurate the edited book “Sahityaratna: Jiban aru Sadhana.” The program, organized by the HNDB Central Library, featured a series of ceremonial and intellectual activities, beginning with the AdtU anthem and lamp lighting by university dignitaries. The event included a Borgeet performance by Sharat Rag, followed by a welcome address from Vice-Chancellor Dr. Narayan Chandra Talukdar. Keynote speaker Mr. Anant Vijay was felicitated by the Pro Vice-Chancellor, and the book was launched by Academy Award-winning author Ms. Anuradha Sharma Pujari, who praised its contribution to preserving Dutta barua's legacy. Additional recognitions were given to contributors and researchers associated with Dutta barua’s work. The program concluded with a vote of thanks and a state anthem. The gathering, which saw participation from students, faculty, staff, and invited guests, highlighted the university's commitment to honoring literary heritage and promoting scholarly discourse.

Activities proposed under different MOUs of 2022-23

AdtU's collaboration in Academic, Research, and Innovation with other Universities/ Institutions/Industries

List of activities proposed in MOU signed	Name of the partnering Institution/ industry /research lab/corporate house with contact details	Duration (From-To)
Collaboration for research, exchange program for faculty and students, internship and training program for students, joint consultancy.	Bonphul Health Pvt. Ltd., Balaram Basumatari Path, Kerakuchi Tiniali, Guwahati-20, Assam.	14-03-2023 to 14-03-2026
To prepare students for major competitive examinations and carrier counseling.	Career Launcher - Guwahati, Assam	28-11-2022 to 28-11-2025
To prepare students or competitive examinations and carrier counseling	Mahendra Educational Pvt Ltd., Mahendra Arcade, Faizabad Road, Gomtinagar, Lucknow, UP.	28-10-2022 to 28-10-2025
Exchange of staffs, researchers; exchange of UG and PG students, collaborative research, joint degree program	Biliran Province State University, HC72+9G7, P.I, P. Inocentes St, Naval, 6543 Biliran, Philippines	09-08-2022 to 08-08-2027
Collaboration in training, R&D, industry visit and internship for students from FoPS, FoS, FoCM	Tholua Pratisthan Pvt. Ltd., Chandan Nagar, Survey, Beltola Tiniali, Guwahati, Assam 781028	30-05-2023-30-05-2026
Computer Application, Artificial Intelligence, Data Science, and Deep Learning	IBM India Private Limited, Nayanpur, Guwahati, Assam 781006	21.02.2023 renewed on 26.03.2024 to 25.03.2025
To develop common platform for research, exchange programme for faculty and students	Rangia College, Rangia, Assam	20-02-2023 to 19-02-2026
Industry specific training and placement of students.	Talent Acquaintance Pvt. Ltd, Ashram Road, Ahmedabad, Gujarat, India	11-07-2022 to 11-07-2025
Organising training and internship programmes, promote academic-industry partnership, clinical posting, students exchange.	Apollo Hospital , Guwahati, Assam, India	13-03-2023 to 13-03-2026
To prepare students for competitive exams, carrier counseling	SRC Consultancy Services Official Business Associate of UPGRAD Education Private Limited, Chandmari, Guwahati, Assam, India	28-01-2023 to 28-01-2026
Exchange of faculty and students, joint research program and publication, joint conference, student visits, seminars, summer school programmes.	San Pedro College, Philippines	16-11-2022 to 15-11-2027
Collaboration in teaching, R&D and consultancy, conducting training program for students and faculty.	Chitkara University, Chandigarh, India	21-09-2022 (Open ended)
Carrier counseling and counseling for higher studies	Bluesky Services Private Limited, Guwahati, Assam	20-10-2022 to 20-10-2025
Training, clinical posting, industry partnership	Health City Hospital , Guwahati, Assam, India	01-11-2022 to 01-11-2025
Carrier counseling for higher education	Admissify Edutech Private Limited , Guwahati, Assam-781005, India	06-09-2022 to 06-09-2025
Exchange of faculty and students, joint research program and publication, joint conference, student visits, joint scholarship	Hoa Binh University, Vietnam	04-03-2023 to 03-03-2028
Students and faculty exchange programme, intern exchange, joint scholarship program	Jashore University of Science and Techology, Jashore, Bangladesh	05-12-2022 to 04-12-2027
Students and faculty exchange programme, intern exchange, joint scholarship program	Jatiya Kabi Kazi Nazrul Islam University, Bangladesh	04-08-2022 to 03-08-2027
Collaboration in teaching, R&D and consultancy, conducting training program for students and faculty.	Asset Chain Techlligence Private Limited (Truscholar), Maharastra, India	21-09-2022 (Open ended)

List of activities proposed in MOU signed	Name of the partnering Institution/ industry /research lab/corporate house with contact details	Duration (From-To)
To explore carrier opportunities for students and to provide counseling for higher education abroad.	Global Reach Education Services Pvt Ltd., GS Road, Guwahati, Assam, India	28-01-2023 to 28-01-2026
Research collaboration, exchange of students for academic, research and training purpose.	ICAR -National Research Centre on Pig, Rani	16/11/2022 to 16/11/2027
Collaboration in teaching, R&D and consultancy in the area of mutual interest.	Ashlar Projects, BB Complex, Azara, Guwahati, Assam	31-10-2022 to 31-10-2025
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	Iloilo Science and Technology, Iloilo City, Iloilo, Philippines	22-03-2023 to 21-03-2028
Carrier counseling and training of students for higher education	Mind India, Guwahati, Assam, India	10-08-2022 to 10-08-2025
Training and development, industry partnership, clinical posting.	Primus (Primus Imaging Pvt Ltd.), Banghagarh, Guwahati, Assam, India	27-01-2023 to 27-01-2026
Carrier counseling and training of students for higher education.	Skillfinity, Paltan Bazar, Guwahati, Assam, India	31-01-2022 to 31-02-2025
Carrier counseling to prepare students for competitive examinations.	SPM IAS Academy, Ganeshguri, Guwahati, Assam, India	03-02-2023 to 03-02-2026
Students and staff exchange, joint research and joint seminars/conferences	Politeknik Negeri Jakarta, Depok City, West Java 16425, Indonesia	04-04-2023 to 03-04-2026
Offering online degree through IOU, joint global placement drive, joint academic initiatives, joint research activities	International Online University, Woodside, New York, USA	16-11-2022 to 15-11-2027
Exchange of faculty and students, joint research program and publication, joint conference, student visits, seminars, summer school programmes.	Manmohan Technical University, Hathimudha 56707, Nepal	13-12-2022 to 12-12-2027
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Dr. D.Y. Patil B-School, Pune – 411033. Maharashtra, India	21-09-2022 (Open ended)
Counseling students for higher education and carrier opportunities.	Dumick Educational Consultancy, Bikash Nagar Guwahati, Assam – 781034	02-08-2022 to 02-08-2025
Exchange of faculty and students, joint research program and publication, joint conference, student visits, seminars, summer school programmes.	Sukuna Multiple Campus, Morang, Nepal	22-12-2022 to 21-12-2027
Studenta and faculty exchange, koint research, exchange of academic informations, publications	Ahsanullah University of Science and Technology, Tejgaon, Industrial Area, Dhaka-1208, Bangladesh	16-11-2022 to 15-11-2027
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	AKS University, Satna, Baghedi, Madhya Pradesh 485001, India	21-09-2022 (open ended)
Collaboration in teaching, R&D, joint scholarship, academic exchange of students and faculty, exchange of IPR.	Al-Quds University, Palestine	24-01-2023 to 23-01-2028
Collaboration in teaching, R&D and consultancy, conducting training program for students and faculty.	Aryakul Group of Colleges, Sarojini Nagar Lucknow, Uttar Pradesh 226002	21-09-2022 (Open ended)
Technology management for practical application.	Asia Pacific University, Wilayah Persekutuan Kuala Lumpur, Malaysia	01-04-2023 to 31-03-2024
To prepare students to successfully crack major competitive exams, promote training for courses like english communication, job preparation, SAT, IELTS, TIEFL, PTE etc.	Ayuda Educational Services Private Limited, VIP Road, Guwahati-22, Assam, India	2023 to 2025
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	Bela Education Group, Dhaka, Bangladesh	07-04-2023 to 06-04-2028
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	Biruni University, İstanbul, Turkey	05-01-2023 to 04-01-2028
Exchange of students and faculty, scholarship program, joint research programme	CETYS University System, Campus Mexicali, Calz. Cety s/n, Rivera, 21259 Mexicali, B.C., Mexico	16-11-2022 to 15-11-2027
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	Dhaka College of Physiotherapy, Bangladesh	07-04-2023 to 06-04-2028

List of activities proposed in MOU signed	Name of the partnering Institution/ industry /research lab/corporate house with contact details	Duration (From-To)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Dr. D.Y. Patil Centre for Management and Research, Pune, 412114 Maharashtra, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Global Institute of Pharmaceutical Education & Research (GIPER), Uttarakhand, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Himalayan University, Itanagar, Arunachal Pradesh, India	21-09-2022 (Open ended)
Exchange of students and faculty, scholarship program, joint research programme	Holy Angel University, Angeles City, Republic of The Philippines	05-01-2023 04-01-2028
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	I-Business Institute, Greater Noida, UP, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	IES University, Bhopal, Madhya Pradesh, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	International School of Design, New Delhi, India	21-09-2022 (Open ended)
Exchange of students, faculty and staff, scholarship program, joint research programme, online/virtual exchange programme	Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha	16-11-2022 to 15-11-2027
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	Karabuk University, Turkiya	16-11-2022 to 15-11-2027
Collaboration in teaching, R&D, joint scholarship, academic exchange of students and faculty, exchange of IPR.	Kathmandu University, Dhulikhel 45200, Nepal	29-01-2023 to 28-01-2028
Exchange of students and faculty, scholarship program, joint research programme	Lyceum of the Philippines University - Davao, Davao City, Davao del Sur, Philippines	16-11-2022 to 15-11-2027
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Maharishi Mahesh Yogi Vedic Vishwavidyalaya, Katni, Madhya Pradesh, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Mangalayatan University, Aligarh, UP, India	21-09-2022 (Open ended)
Joint training programme, consultancy and research projects, exchange programme for researchers, students and scientists, joint workshop/seminars, etc.	Mushroom Development Foundation, Ambari, Guwahati, Assam, India	04-02-2023
Collaboration in teaching, R&D, joint scholarship, academic exchange of students and faculty, exchange of IPR.	Noida Institute of Engineering and Technology, Greater Noida, UP, India	15-03-2023 to 14-03-2028
Exchange of students and faculty, scholarship program, joint research programme	Our Lady of Fatima University, Santa Rosa, Philippines	16-11-2022 to 15-11-2027
To promote co-operation in teaching, research, and service to the community	Pokhara University, Pokhara, Nepal	28-02-2023 to 27-02-2028
To stimulate research activities of mutual interest and, development of teaching activity in common interest areas, to promote and facilitate the international exchange of teachers and researchers, to reinforce the interchange of undergraduate and postgraduate students,	Polytechnic Institue of Braganca, Alameda de Santa Apolónia 253, 5300-252 Bragança, Portugal	07-03-2023 to 06-03-2028
Exchange of students, faculty and staff, scholarship program, joint research programme, online/virtual exchange programme	Powislaanski University, Poland	28-11-2022 to 27-11-2027
Exchange programme for faculty and students, Joint consultancy and research project, collaboration on outreach events.	Radhamadhab College, Schar, Assam, India	12-05-2023 to 11-05-2026

List of activities proposed in MOU signed	Name of the partnering Institution/ industry /research lab/corporate house with contact details	Duration (From-To)
Exchange of students, faculty and staff, scholarship program, joint research programme, online/virtual exchange programme	St. Joseph's Degree and PG College, Hyderabad, Telangana 500029, India	16-11-2022 to 15-11-2027
To create technology platform and provide industrial exposure to students.	RaiseToPi India Private Limited, Bangalore, Karnataka 560038, India	21-09-2022 to 20-09-2023
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	SAM Global University, Bhopal, Madhya Pradesh, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, joint scholarship, academic exchange of students and faculty, exchange of IPR.	Seacom Skills University, near Santiniketan, Kendradangal, Sauria, West Bengal, India	15-03-2023 to 14-03-2028
Joint training programme, consultancy and research projects, exchange programme for researchers, students and scientists, joint workshop/seminars, etc.	Seven Sisters Development Assistance, Gotanagar, Guwahati, Assam	06-02-2023 to 05-02-2028
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Shanti Business School, Ahmedabad, Gujarat, India	21-09-2022 (Open ended)
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	Sushant University, Sector 55, Gurugram, Haryana 122003, India	21-09-2022 (Open ended)
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	The International University of Scholars, Dhaka, Bangladesh	06-08-2022 to 05-08-2027
Collaboration in teaching, R&D, joint scholarship, academic exchange of students and faculty, exchange of IPR.	Tokat Gaziosmanpasa University, Turkey	24-01-2023 to 23-01-2028
Clinical posting, industry partnership, students counseling	Triumphant Institute Of Management Education, Nepal	28-01-2023 to 28-01-2026
Exchange of students and faculty, scholarship program, joint research programme	Universitas Airlangga, Surabaya, East Java 60115, Indonesia	16-11-2022 to 15-11-2027
Exchange of students and faculty, scholarship program, joint research programme	Universiti Islam Sultan Sharif Ali, Bandar Seri Begawan, Brunei	16-11-2022 to 15-11-2027
Collaboration in teaching, R&D, joint scholarship, academic exchange of students and faculty, exchange of IPR.	University Kristen Satya Wacana, Kota Salatiga, Jawa Tengah 50711, Indonesia	15-03-2023 to 14-03-2028
Programmes designed to conduct joint research activities, Faculty exchange and/or attachment programmes; laboratory Facilities development, academic-Industry Networking Programs	University of Asia Pacific, Dhaka-1205, Bangladesh	16-11-2022 to 15-11-2027
Collaboration in teaching, R&D, consultancy, curriculum development and academic exchange of students and faculty.	University of Petroleum & Energy Studies, Prem Nagar, Uttarakhand 248007, India	21-09-2022 (Open ended)
Capacity building of students, faculties and staffs through a strong research and development ecosystem	Edulife India, Kalyan Nagar, Bengaluru, Karnataka 560043, India	24-09-2022 to open ended
Exchange programme for researchers, students and faculty members, facilitating the transfer of innovation and technology	Vietnam National University of Forestry, Xuan Mai, Chuong My, Ha Noi	22-09-2022 to 21-09-2027
Exchange of students and faculty, joint scholarship program, joint research programme	West Visayas State University, Luna St, La Paz, Iloilo City, 5000 Iloilo, Philippines	04-05-2023 to 03-05-2028
Exchange of students, faculty, researchers, joint research activities, exchange of academic informations and publications.	Rostov State University of Economics, Russia	02-02-2023 to 01-02-2028
Exchange of students for internship and clinical observation, to conduct placement drive.	Agile Hospital, Guwahati, Assam	01-11-2022 to 30-10-2023
Internship and clinical observation program for students, campus recruitment.	Critical Care Hospital and Research Institute, Guwahati, Assam	01-11-2022 to 30-10-2023
Internship and clinical observation program for students, campus recruitment.	E G Nursing home pvt. ltd., Guwahati, Assam	01-11-2022 to 30-10-2023
Internship and clinical observation program for students, campus recruitment.	Pratiksha Hospital, VIP Road, Guwahati, Assam, India	01-11-2022 to 30-10-2023
Sharing of Service Now Technology and exchange of students.	Service Now, Guwahati, Assam	16-03-2023

Sl. No.	Nature of Outreach Activity	Title	Date	Venue	No. of Student Participant	No. of Faculty Participant
1.	Health Awareness Camp	Awareness Building on breastfeeding for the women's of Panikhaiti village.	03-08-2022	Panikhaiti Village, Guwahati	82	06
2.	Cleanliness Awareness Drive	Swachh Bharat Abhiyan at Bonda village.	18-08-2022	Bonda Village, Guwahati	89	05
3.	Health Awareness Camp	Awareness Programme on Mental Health Promotion for the People of Bonda Village.	27-09-2022	Bonda Village, Guwahati	93	03
4.	Health Awareness Camp	Diabetes checking camp for the villagers of Rajabari.	01-11-2022	Rajabari Village, Guwahati	86	10
5.	Health Awareness Camp	Awareness Building on AIDS for the people of Panikhaiti village.	01-12-2022	Panikhaiti, Guwahati	80	10
6.	Career Counseling Camp	Career Counseling Camp for the youth of Bonda village.	25-01-2023	Bonda Village, Guwahati	147	02
7.	Health Awareness Camp	Awareness Building on the Significance of Blood Donation among the Youth of Chandrapur Village.	21-02-2023	Chandrapur Village, Guwahati	88	03
8.	Health Awareness Camp	Free Physiotherapy Camp for the Residents of Helping Hand Old Age Home.	26-03-2023	Lalmati, Guwahati	82	03
9.	Biodiversity Awareness Camp	Plantation Drive at Bonda Village.	26-04-2023	Bonda Village, Guwahati	97	05
10.	Biodiversity Awareness Camp	Distribution of Saplings at Chandrapur Village.	16-05-2023	Chandrapur Village, Guwahati	96	02
11.	Food Safety Awareness Camp	Awareness Building on Food Safety at Panikhaiti Market area.	07-06-2023	Panikhaiti, Guwahati	97	03

AdtU's Outreach Activities during the year 2022-23

Photographic documentation of the details for the event listed in the preceding pages (No. represents the Sl. No. of the event in the table):

1. Awareness Building on breastfeeding for the women's of Panikhaiti village

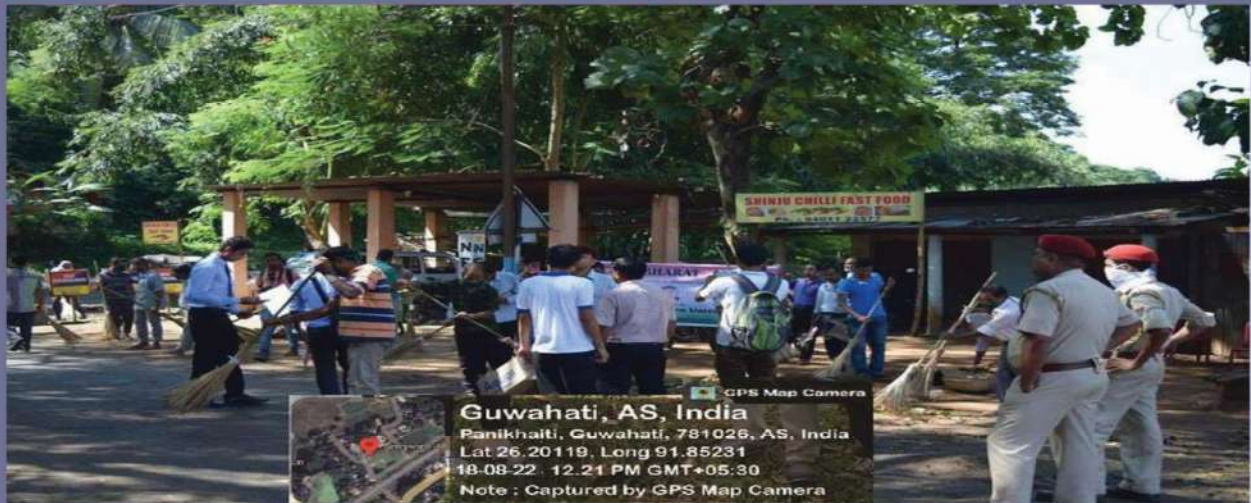


Panikhaiti, Assam, India
6V36+R2C, Panikhaiti, Assam 781026, India
Lat 26.204435°
Long 91.859779°
03/08/22 11:54 AM



Panikhaiti, Assam, India
6V36+R2C, Panikhaiti, Assam 781026, India
Lat 26.204426°
Long 91.859769°
01/08/22 12:26 PM

2. Swachh Bharat Abhiyan at Bonda village



Guwahati, AS, India
Panikhaiti, Guwahati, 781026, AS, India
Lat 26.20119, Long 91.85231
18-08-22 12:21 PM GMT+05:30
Note : Captured by GPS Map Camera

3. Awareness Programme on Mental Health Promotion for the People of Bonda Village



5RPV+W32, Bonda Chapaidong Rd, Birkuchi, Narengi Tiniali, Guwahati,
Assam 781026

Guwahati

Assam

India

27-09-22

11:34 AM

29°C

4. Diabetes checking camp for the villagers of Rajabari



5. Awareness Building on AIDS for the people of Panikhaiti village



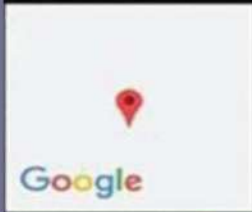
6. Career Counseling Camp for the youth of Bonda village



7. Awareness Building on the Significance of Blood Donation among the Youth of Chandrapur Village



GPS Map Camera



Panikhaiti Gaon, Assam, India
6R2W+9HP, Panikhaiti Gaon, Guwahati, Assam 781020, India
Lat 26.199559°
Long 91.843079°
21/02/23 01:00PM GMT +05:30

8. Free Physiotherapy Camp for the Residents of Helping Hand Old Age Home



GPS Map Camera



Guwahati, Assam, India
4Q5J+V62, Lalmati, Guwahati, Assam 781029, India
Lat 26.109278°
Long 91.780892°
26/03/23 11:53 AM GMT +05:30



GPS Map Camera



Guwahati, Assam, India
4Q5J+V62, Lalmati, Guwahati, Assam 781029, India
Lat 26.109363°
Long 91.780567°
26/03/23 11:04 AM GMT +05:30

9. Plantation Drive at Bonda Village



5RPV+W32, Bonda Chapaidong Rd, Birtuchi, Narengi Tinali, Guwahati, Assam 781020

Guwahati
Assam
India

26-04-23

11:50 AM

29°C

10. Distribution of Saplings at Chandrapur Village



11. Awareness Building on Food Safety at Panikhaiti Market area



Skill Development & Capacity Building by AdtU during 2022-2023

Jal Jeevan Mission (JJM)

Assam down town University has been recognized as a Key Resource Centre by the National Jal Jeevan Mission (NJJM), Department of Drinking Water and Sanitation, Ministry of Jal Shakti, Government of India. The university is tasked with conducting Capacity Building Training Programs at the community level throughout the North East Region.

Participants in the Community-Level Training:

Elected members of Panchayati Raj Institutions (PRIs), including Gram Panchayat, Panchayat Samiti, and Zila Parishad

Representatives of JJM-VWSCs (Village Water Sanitation Committees), Pani Samitees, and other volunteers accredited by NJJM

Objectives of the Training Program:

Universal Coverage: To raise awareness and disseminate knowledge in alignment with Jal Jeevan Mission's goal of providing every rural household with a sustainable 'Functional Household Tap-water Connection' (FHTC). This aims to ensure that every household has access to functional tap water that meets prescribed quality standards, is available in adequate quantity, and comes with affordable service delivery charges. The mission seeks to eliminate reliance on untreated water sources.

Sustainability:

To focus on the long-term sustainability of water supply systems, ensuring that potable water consistently meets quality standards and reduces health risks associated with unsafe drinking water.

Equity and Social Inclusion:

To promote equitable distribution of water resources, addressing disparities in access that disproportionately affect marginalized and vulnerable communities.

Achievements:

Under the auspices of the State Jal Jeevan Mission (SJJM) at Jal Bhawan, Itanagar, Assam down town University successfully organized 21 Capacity Building Training Programs in Arunachal Pradesh during the fiscal year 2022-2023. These programs were held over two weeks in various locations across the state, including Aalo, Mechuka, Basar, Yachuli, Ziro, Raga, and Sangram.



Jal Jeevan Mission Program beneficiaries and AdtU resource person at Raga, Arunachal Pradesh

Program Beneficiaries – JJM Arunachal Pradesh

SL. No	DISTRICT	LOCATION	PARTICIPANTS
1.	West Siang	Aalo	182
2.	Shi Yomi	Mechuka	129
3.	Lepa-Rada	Basar	100
4.	Lower Subansiri	Yachuli	252
5.	Lower Subansiri	Ziro	262
6.	kamle	Raga	257
7.	Kurung Kumey	Sangram	154

The comprehensive series of 21 JJM programs, which began on 19th July 2023 at two locations—Aalo in West Siang District and Mechuka in Shi Yomi District culminated on 17th August 2023 at Sangram in Kurung Kumey District. This extensive training initiative marked a significant milestone in advancing water and sanitation facilities throughout the state.

The programs saw enthusiastic participation from dedicated individuals committed to fostering positive changes in their communities through sustainable water supply solutions. Engaging approximately 1,300 participants across all 21 training sessions, this achievement represents a substantial progress toward the objectives of the Jal Jeevan Mission. Armed with enhanced knowledge and skills, these participants are now well-positioned to contribute actively to the development of reliable and sustainable water supply solutions within their communities.



Jal Jeevan Mission Program beneficiaries and AdtU resource person at Ziro, Arunachal Pradesh

JJM Tripura: Assam down town University (AdtU) successfully conducted a 3-day Capacity Building Training Program (Level 3) for 208 participants. The participants were divided into 5 batches, from the Durgachowmuhani and Salema RD Blocks of Kamalpur, Dhalai District, Tripura. On JJM, this was the first program in Tripura.

Details of Dates and Participants of JJM program conducted at different Blocks of Tripura.

Program Dates	Block Name	No. of Participants
27.03.2023 to 29.03.2023	Durgachowmuhani RD Block	40
30.03.2023 to 01.04.2023	Durgachowmuhani RD Block	36
30.03.2023 to 01.04.2023	Durgachowmuhani RD Block	36
03.04.2023 to 05.04.2023	Salema RD Block	44
03.04.2023 to 05.04.2023	Salema RD Block	52
Total Beneficiaries		208

JJM Manipur: A four-day residential capacity-building program was conducted in Thoubal District, Manipur, from September 10th to September 13th, 2022. The event brought together 61 participants for an intensive training and development experience.

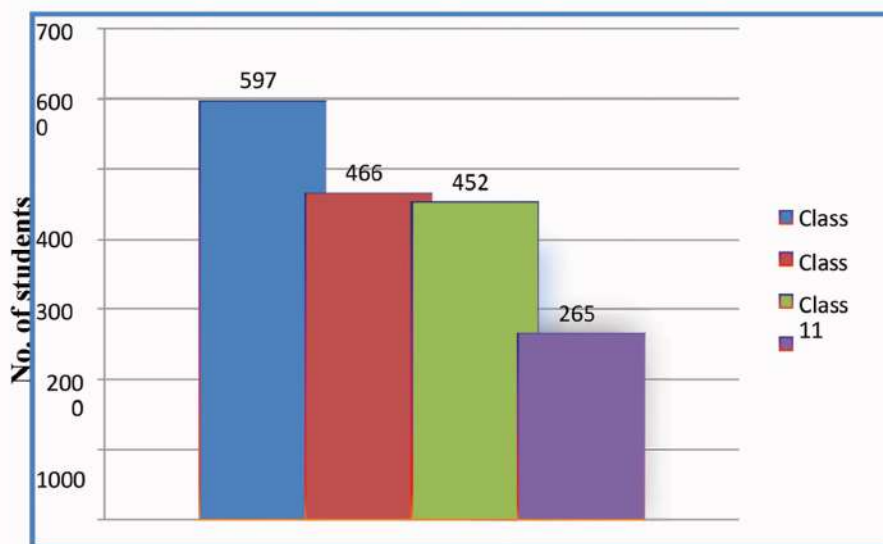


Samagra Shiksha Assam

Under the Rashtriya Madhyamik Shiksha Abhiyan (RMSA), Vocational Education project is an initiative of AdtU since 2017, whose aim is to deliver vocational training in line with the National Skill Qualification Framework (NSQF). Originally implemented in 51 government schools under RMSA, and now part of SSA Assam, the project eventually expanded to 367 government schools across Assam. It benefited 17,808 students in various sectors, including Automotive, Beauty and Wellness, Retail, Tourism and Hospitality, Electronics and Hardware, IT-ITES, and Agriculture. Students received training in these sectors as an elective subject in classes IX and X and as a core subject in classes XI and XII. Certificates were awarded by the Sector Skill Council upon completion of Class X and Class XI. Services provided by Assam down town University as per the direction of down town Charity Trust and as per the guideline of SSA. These were:

- Engaging vocational trainers (VT) and enrolling students in assigned government schools.
- Distributing printed course materials to students.
- Establishing workshops and laboratories for hands-on practice.
- Offering practical skill training, organizing field visits, and conducting guest sessions.
- Monitoring training quality, mobilizing students, and fostering industrial engagement.
- Conducting awareness programs for students and their parents.
- Providing career guidance, counseling, and facilitating placement drives at schools.

During the year 2022-23, large numbers of schools were covered to provide training to students of class 9 to 12 and the numbers are shown in the graph below.



Different classes of high schools



Students of Baguan H.S. School, Goalpara attending training on Tourism & Hospitality conducted by the programme of Tourism and Hospitality Management under the faculty of Commerce and Management.



Students of Assam Vidyapith H.S. School, Dibrugarh attending training on Retail Business which was conducted by the Faculty of Commerce and Management

Celebration/Organization of National and International Commemorative Days, Events, and Festivals in the Year 2022-2023

Assam down town University (AdtU) is committed to fostering a vibrant campus life through the celebration and organization of various national and international commemorative days, events, and festivals. These activities not only enhance the cultural fabric of the university but also promote principles of inclusivity, brotherhood, unity and a sense of community among students and staff.

National Commemorative Days

1. The 74th Republic Day (26th January, 2023) Celebration at Assam down town University:

The university celebrated Republic Day with a flag-hoisting ceremony followed by performance of patriotic songs and cultural events by students. The event is marked by the presence of several esteemed guests and was a reflection of national pride and unity. The campus was adorned with the spirit of the occasion, and it witnessed a meticulously organized event that commemorated the essence of democracy under the overarching theme, “Viksit Bharat” and “Bharat: Loktantra ki Matraka (India: Mother of Democracy)”.



2. The 76th Independence Day (15th August) celebration on the theme “Azadi ka Amrit Mahotsav”

Independence Day was celebrated with great enthusiasm at AdtU. The celebration included a parade, flag hoisting, and various cultural programs showcasing India's rich heritage and the spirit of freedom. Seventy-five years of independence was a special milestone for our country and AdtU joined the country in celebration of the 76th Independence Day with great enthusiasm and patriotic fervour in the presence of students, faculty members with their families, the administrative staff, and security personnel of the university.



3. Celebration of the Teacher's Day (5th September):

Every year on Teacher's Day, AdtU recognizes and appreciates the contributions of its faculty members. Students organized various cultural activities and award ceremonies to honor their teachers. The event was started with auspicious lamp lightening ceremony, followed by the University anthem. The Honorable Vice Chancellor, Prof. (Dr.) Narayan Chandra Talukdar addressed the students and teachers and shared his thoughts on role of students and teachers in country's progress, prosperity and peace. Several students presented enjoyable cultural programs in the event.



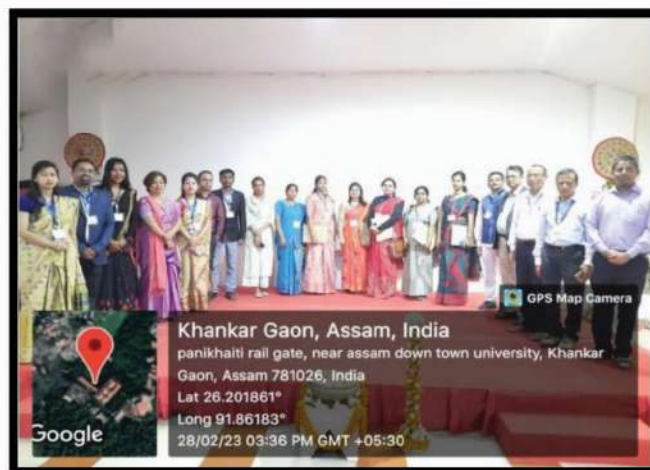
4. Celebration of Children's Day:

Children's Day is celebrated across India on 14th of November every year on the birthday of the first Prime Minister of India, Pandit Jawaharlal Nehru to raise awareness about the rights, education, and welfare of children. It is a day of paying special honour to Pandit Jawaharlal Nehru who was known to have been fond of children. This year on this day, many educational and motivational programs were held for children in AdtU. On this Special occasion, Assam down town University organised a health camp for children at Thakurkuchi L. P. School.



5. Celebration of the National Science Day:

Assam down town University celebrated National Science Day (NSD) on 28th February 2023 with great enthusiasm. The day is dedicated to the remembrance of Sir C. V. Raman, the Indian physicist who discovered the Raman Effect. In AdtU, the event was organized by Faculty of Science and Faculty of Engineering. The theme for this year's National Science Day was "Global Science for Global Well-Being."



International Commemorative Days

1. World Environment Day:

Every year, AdtU actively participates in World Environment Day on 5th June by organizing tree plantation drives, workshops on sustainability, and awareness campaigns about environmental conservation.

This year AdtU also organized an outreach event on the world environment day at the Tamulkbari village, Panikhaiti and demonstrated Eco-bricks making by using plastic bottles to the villagers. Students of the Social Work program of Faculty of Humanities and Social Science also appealed to the villagers not to litter surroundings with used plastic bottles but rather make use of those.



2. International Day for Biological Diversity:

AdtU Biodiversity Club and Green Intention Program, led by Faculty of Science, celebrated International day for Biological diversity on 22nd May 2023, with great zeal and fervors on the theme of the year of 2023- "From agreement to action: Build back Biodiversity". On this occasion, a plantation program was also conducted and several valuable tree saplings planted inside the campus.



3. International Women's Day (IWD):

The Assam down town University celebrates International Women's Day on 8th march in AdtU campus. A free health check-up camp targeting the beneficiaries, especially the women and children from nearby Tatimara villages of Panikhaiti locality was organized on the



4. World Population Day:

AdtU organized a one day Health Camp on 11th July, 2022 in collaboration with Nursing Teachers Association India (NTAI), Assam State Branch. The camp was conducted in the Adopted village of AdtU at the premises of Tintukura LP School. Different services rendered to the villages were Medical checkup, testing of random blood sugar, measuring blood pressure and talk on family planning methods.



5. World Tourism Day:

On World Tourism Day, AdtU hosted a Tourism Craft Fair & Food Mela on 27th Sept, 2022 in AdtU campus. This event showcased local crafts and cuisine, promoting tourism and celebrating cultural diversity.

The Department of Hospitality and Tourism Management, Under the Faculty of Commerce & Management also organized a cultural event on this occasion of World tourism.



6. World AIDS Day:

AdtU observed World AIDS Day by organizing awareness programs and activities to educate the community about HIV/AIDS prevention and support, emphasizing the importance of solidarity and care. World AIDS day is observed on 1st December every year internationally. The theme for this year is "Equalize". Assam down town University observed World AIDS Day by forming a HUMAN CHAIN which comprised of students, faculty members and non-teaching staff to show solidarity to AID's victims.



7. World Social Work Day:

On 21st March, 2022 AdtU highlighted the contributions of social workers to society. Events of the day included seminars, discussions, and outreach programs to promote the significance of social work. The students of Social Work programs also organized an event at Bengnabari Village on this occasion.



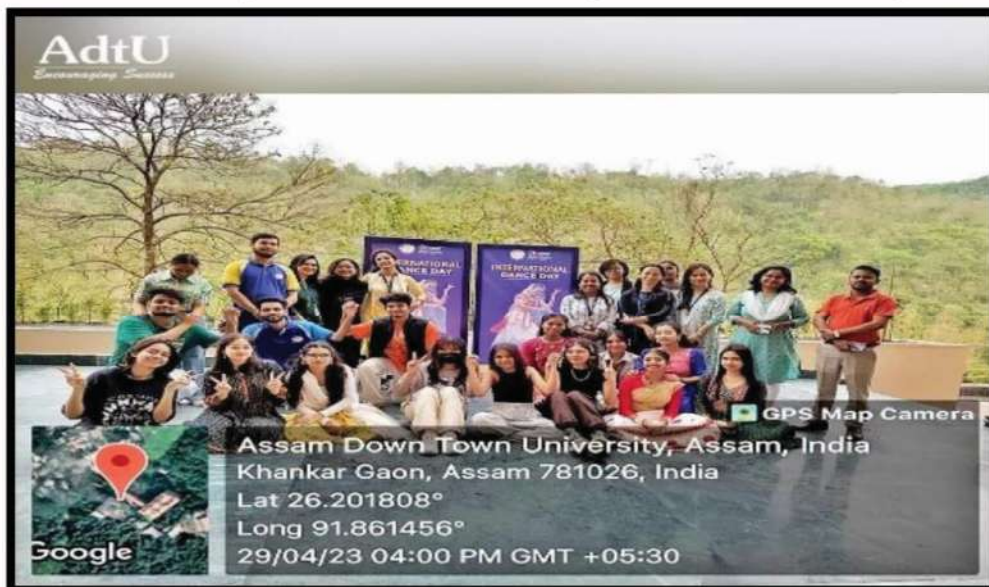
8. International Day of Yoga:

AdtU organized a Yoga session on International Day of Yoga and this was followed by discussions on importance of Yoga for mental and physical well-being. This event encouraged the community of AdtU to embrace a healthy lifestyle.



9. International Dance Day:

AdtU celebrated International Dance Day by organizing various dance events and activities. These events aimed to promote positive social action and create an ambience for a happier, more caring world. International Dance Day was celebrated on 29th April 2023 in AdtU Campus.



10. World Cancer Day

On this occasion, Assam down town University organized an awareness programme on ovarian cancer among the females of Tamulbari village, Panikhaiti, Guwahati. Miss Mitali Kar, Clinical Instructor of department of DDIT of AdtU gave a presentation on awareness, risk factors, evaluation and early detection of ovarian cancer.



11. World Diabetes Day

On the occasion of World Diabetes Day, Faculty of Science in collaboration with the Faculty of Paramedical Sciences, Assam down town University organized a Health camp on 14th of November, 2022 in the premise of Assam down town University. The theme for World Diabetes Day, 2022 was “Access to diabetes education” which underpins the larger multi-year theme of 'access to care'.



12. World Food Day

On the occasion of World Food Day, Faculty of Science, Assam down town University organized an outreach program on 17th October, 2022. It was held at Panikhaiti Primary School, Panikhaiti in the presence of faculty members and the students of Food Nutrition and Dietetics. The theme for this year's World Food Day was “leave no one behind”.



A Visual Presentation on Steps of Handwashing was demonstrated emphasizing good hygiene practices. The students proactively displayed folders, calendars and charts explaining healthy food sources for different vitamins and minerals.

13. World Music Day

Every year on June 21st, world music day is celebrated worldwide to encourage the young musicians by giving them a stage to perform in front of the audience. For fulfilling this purpose, AdtU music club also organized functions in the World Music Day celebrations in AdtU campus to encourage the young musicians of the university by giving them a stage to showcase their talent. The program ended with distribution of snacks to school children as a token of love and an appreciation for their active participation.



Cultural Festivals

1. Magh Bihu

Magh Bihu, also known as Bhogali Bihu, is a significant harvest festival in Assam, marking the end of the harvesting season in the month of Maagha (January-February). At Assam down town University, the festival was celebrated by the students, faculty and staff participated in ‘Meji’ lighting very enthusiastically.



Community Bonfires (Meji): Bonfires are lit, symbolizing the end of the harvesting season and bringing warmth and unity to the community.



Feasts: Traditional Assamese dishes were prepared and shared among the university community, highlighting the rich culinary heritage of Assam.

2. Bohag Bihu Festival:

AdtU celebrated the Bohag Bihu festival with great fervor. The celebrations included traditional Assamese music and dance performances, community feasts, and cultural exhibitions. The echoes of joyous laughter and the beat of traditional instruments filled the air at AdtU's Pre-Bihu Workshop. With the mesmerizing rhythms of Dhol, Pepa, Gogona, and the graceful steps of Nasoni, the bihu workshop was a celebration of tradition and unity of adtU community.



3. Kati Bihu (Kongali Bihu)

AdtU also celebrated Kati Bihu also known as Kongali Bihu. This festival holds significant cultural and agricultural importance in Assam, emphasizing the connection of the agrarian lifestyle to nature and the rituals associated with it signify this connection.



Rituals of "Kati Bihu"

4. Diwali:

Diwali, the festival of lights, was celebrated with great enthusiasm at Assam down town University (AdtU) Campus. The activities included diya lighting, fireworks, and cultural performances. The campus was beautifully decorated, and students participated in various activities of the evening.



The Dean of Studies Prof. Bandana Dutta extending Diwali greetings to the students and faculty

5. Christmas:

AdtU celebrated Christmas with a festive spirit, organizing events such as carol singing, decorating Christmas trees, and distributing gifts. The celebration was inclusive, with participation from students of all backgrounds who constitute the student body of AdtU.

AdtU Celebrated Pre Christmas on 20th December 2022. The Cake Mixing Ceremony marked the beginning of Pre Christmas celebration which is a unique event organized with great enthusiasm.



Cake cutting ceremony participated by a section of AdtU community

Commemorations of Prominent Personalities

AdtU also honors by organizing auspicious functions on the birth and death anniversaries of prominent Indian personalities. The following personalities were remembered in the Academic Session 2022-23.

1. Late Sahityaratna Harinarayan Dutta Baruah

Assam down town University (AdtU) commemorated the death anniversary of Sahityaratna Harinarayan Duttabaruah, a prominent literary figure in Assam, with great respect and solemnity.



2. Dr. Bhupen Hazarika

Assam down town University observed the 11th death anniversary of Dr. Bhupen Hazarika in the University premises. The event was organised by Erudite Literary Club and AdtU Music Club of Assam down town University. It started with lighting of the lamp, a gesture of tribute to the Assam legend.



3. Rabindra Jayanti

Assam down town University hosted the celebration of Rabindra Jayanti, a festival that honours Rabindranath Tagore's life and works. A number of notable figures from the worlds of literature and culture attended the event, including Professor Dr. Barun Saha of Guwahati University, who was the event's chief guest. Dr. Saha, during his speech said that Rabindra Jayanti is not just a tribute to Tagore, but also a celebration of literature, culture and human spirit.



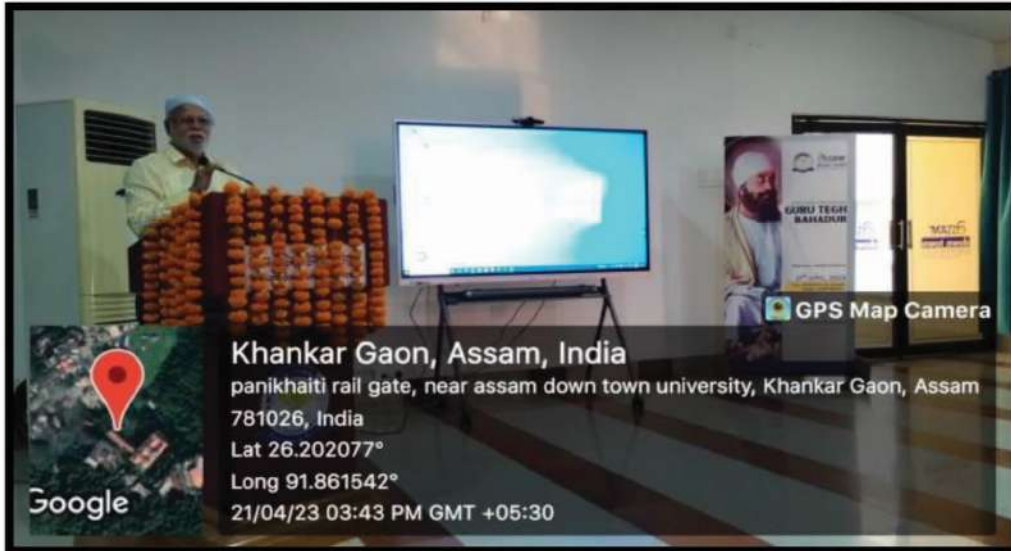
4. Bir Lachit Borphukan

The student members of Drishya Drama Club presented a short drama titled "Bodh" on the occasion of 400th Birth anniversary celebration of Bir Lachit Borphukan in the AdtU premises. The drama presented the focus on the concept of the famous line uttered by Lachit Borphukan at the climax of preparation for battle against Mughal "Deshkt koi Momai dangor nohoi, meaning maternal uncle is not greater than one's country to unite and strengthen spirit of the soldiers.



5. Guru Tegh Bahadur Birth Anniversary celebration

Assam down town University (AdtU) celebrated the birth anniversary of Guru Tegh Bahadur, the ninth Sikh Guru, with reverence and joy. The event highlighted his teachings, his sacrifice for religious freedom, and his contributions to Sikhism and humanity.



6. Netaji Jayanti:

Assam down town University (AdtU) commemorated Netaji Jayanti on 23rd January, 2023, and paid homage to Netaji Subhas Chandra Bose for his great patriotism towards our motherland. Netaji Jayanti, also known as "Parakram Diwas," is an occasion to honor the legacy of one of the India's most prominent freedom fighters.



7. Silpi Divas:

Assam down town University (AdtU) observed Silpi Divas on January 17 to commemorate the death anniversary of Jyoti Prasad Agarwala, a renowned cultural icon and freedom fighter from Assam. The day honors Agarwala's significant contributions to Assamese culture and his role in India's struggle for independence.



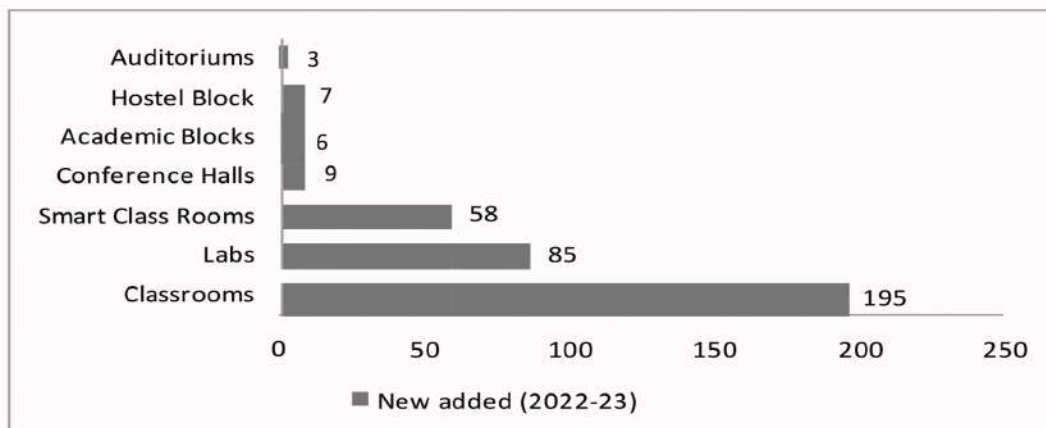
The necessity of reformation in the society through the ideology of Jyotiprasad Agarwala has been reflected in the speech of the chief guest Sanjeeb Kumar Phukan, Associate Editor, Asomiya Pratidin. The function was also attended by Honorable VC, Pro-VC, Dean of Studies, Deans of various faculties, faculty members, and students. Students performed recitation of some of his poems and enacted a scene from one of Jyotiprashad Agarwala's Masterpiece drama "Lobhita".

New Initiatives on Capability enhancement and development schemes for students

Name of the capability enhancement scheme	Year of implementation
Soft Skills Development	
The Essence of Non-Verbal Communication	2022-23
Critical Insights: Workshop on Enhancing Decision-Making Skills	2022-23
Placement Personality Preparatory Program	2022-23
Enhancing Interpersonal Communication Skills to Build Better Relationships	2022-23
Language and Communication Skills Development	
Biz Interact: Business Communication Strategies	2022-23
Elevate Your Grammar: Workshop for English Excellence	2022-23
Strategies for Dynamic Presentations	2022-23
Yoga and Wellness	
The Healing Power of Meditation: Foundations for Mental Health	2022-23
Yoga for Muscle Strengthening	2022-23
Analytical Skill Development	
Insightful Innovation: Design Thinking Workshop	2022-23
CodeSmart: Python for Analytical Thinking	2022-23
Innovate21: Business in the Digital Age	2022-23
Human Value Development	
The Heart of Education: Inculcating Human Values	2022-23
Sustainability and Ethics: A Values-Based Workshop	2022-23
Life-Saving Decisions: Doctors in Emergency and Accident Response	2022-23
Personality and Professional Development	
Cultivating a Growth Mind-set	2022-23
Mapping Your Future: Workshop on Goal Setting Models	2022-23
Time Management and Productivity Hacks for Personal Effectiveness	2022-23
Idea Generation: Methods for brainstorming and developing new ideas.	2022-23
Employability Skills Development	
LinkedIn Essentials: Building your Professional Brand	2022-23
Career Development Toolkit: Resume and Cover Letter Strategies	2022-23
Business Communication Essentials: Workshop on Letter Writing	2022-23
The Employability Advantage: Skills for a Competitive Edge	2022-23

Infrastructure and Amenities

Covering more than 50 acre of land, AdtU campus is located in Panikhaiti, just 6 Km away from Narengi area, Assam down town University has been progressively adding infrastructure facilities depending on the need of Outreach, Research and Innovation in a planned manner for overall development of the students, faculty and other stakeholders. In the academic session 2022-23, it has raised classrooms to 195 normal and 58 smart classrooms, many new laboratories were built raising total students labs to 85. Three auditoriums and 9 conference halls are used for different meetings and cultural functions inside the campus. The central library infrastructure was upgraded with uninterrupted power supply, faculty rooms, seminar halls and additional learning resources including e-resources and video centre. Further, the facilities such as counseling room, language lab, media lab, CIF lab were constructed during the year. The library is facilitated with high speed internet by connecting with a dedicated lease line. The additional computation systems, high end projectors, headphones, laptops for Audio-Visual were added. The campus has now well equipped playground, gymnasium, Swimming Pool and Hostel, and facilities such as Xerox, Stationary and Grocery store for catering to the need of students were also available during the year.



The University has adequate sports and cultural facilities. Amphitheatre (3000 capacity) with state of art facility, cinema hall, Board Room, Council Room and Seminar Hall for meetings and cultural activities. Faculties and students have access to both indoor and outdoor sports facilities on everyday basis. It has a Gymnasium, yoga centre, indoor stadium, an indoor swimming pool, with professional instructors. It has well maintained playgrounds for outdoor games and sports such as cricket and football. The campus also has a pharmacy outlet with doctors on on-call duty for consultation in case general and emergency health situation. One ATM and 5 canteens located at different blocks, a departmental store, a bakery unit, animal shelter, two ponds, a medicinal garden and few general gardens inside the campus cater to different needs of the AdtU Community.

1. Overall Built up area of AdtU as on 2022-23 session:

Type	Area in Sqft
Academic Block 1	170000
Academic Block 2	220245.72
Seminar Hall, Cafeteria and Administrative Area	28566.74
Academic Block 3	10323
Hostel 1	22351.12
Hostel 2	33033.6
Hostel 3	22416.95
Workshop, Laboratory & Innovation Centre	64398.6
Hostel 4	17438.64
Hostel 5	15876.35
Hostel 6	16532.96
Academic Block 4	119044.8
Library & Sports Complex	73243.32
Academic Block 5	230617.88
Guest House & Staff Quarters	14259.2
Hostel 7	61968
Academic Block 6	61319.36

2. Overall Physical Facilities available in the campus during 2022-23:

- Instructional Buildings and Administrative Blocks
- Auditorium
- Hostel for students
- Healthcare Centre
- Residential sectors for the staff
- Vehicle service provided for attending classes
- Conference Hall
- IT building
- Central Instrumentation Laboratory
- Workshop Building
- Central Library
- Animal House
- Museum
- Canteen
- Shopping Complex
- Amphitheatre
- Cinema Hall
- Cafeteria
- Play Ground
- Basketball Court
- Indoor Stadium
- Swimming Pool
- Gymnasium
- Yoga Studio
- ATM
- Guest House
- Pharmacy
- Health Clinic
- Housekeeping of the Hostels
- Security Management of the campus
- Ambulance Services round the clock
- Maintenance of Civil, Electrical, Plumbing & Sanitary services.
- IT and Wi-fi services
- CCTV Surveillance
- Vehicle Parking Facility
- Food & catering services.

3. In-house Services:

- Housekeeping of the campus (Except Hostel)

Glimpses of some general facilities inside AdtU campus

A. Boys Hostels

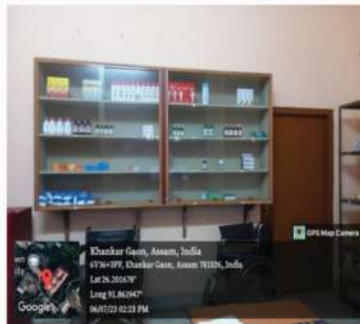


Female House Keeping

B. Girls Hostel



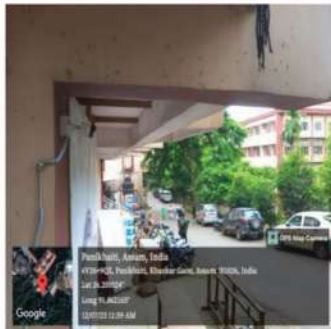
University Health Clinic



Sanitary napkin dispenser and incinerator available in girl's common room

Boys and Girls Hostel

University Pharmacy



Female Security Guard

Surveillance Camera outside the Boys' and Girls' Hostel



Boy's Hostel Canteen



Jironee Canteen



Girl's Hostel Canteen

Glimpses of Classroom, Seminar Hall, and laboratory facilities



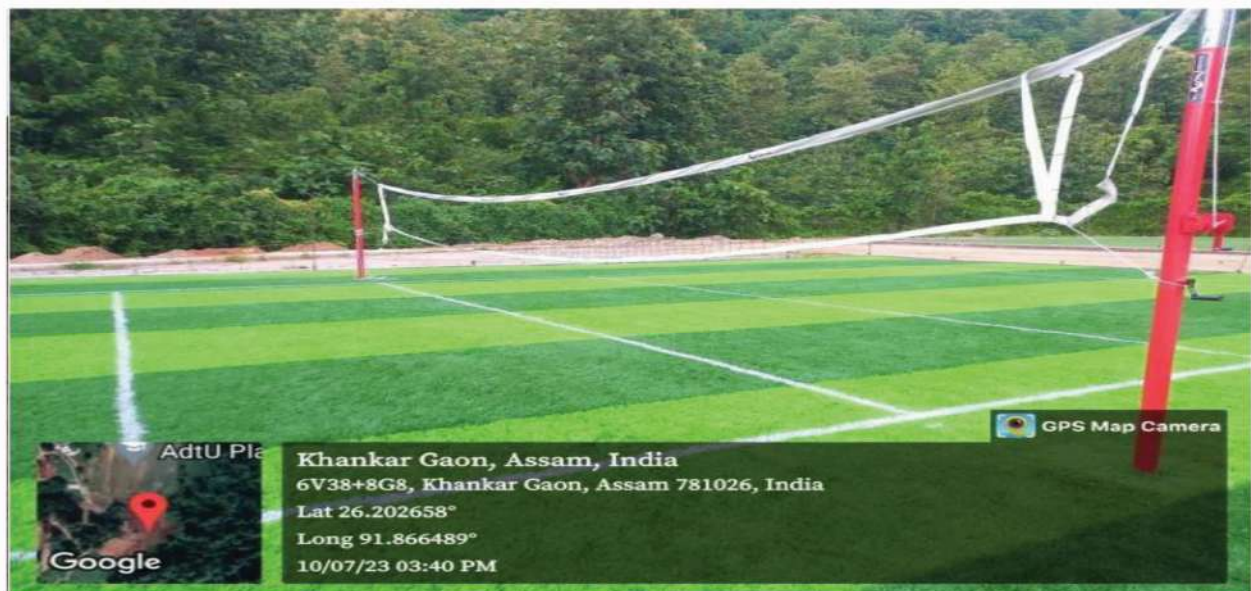
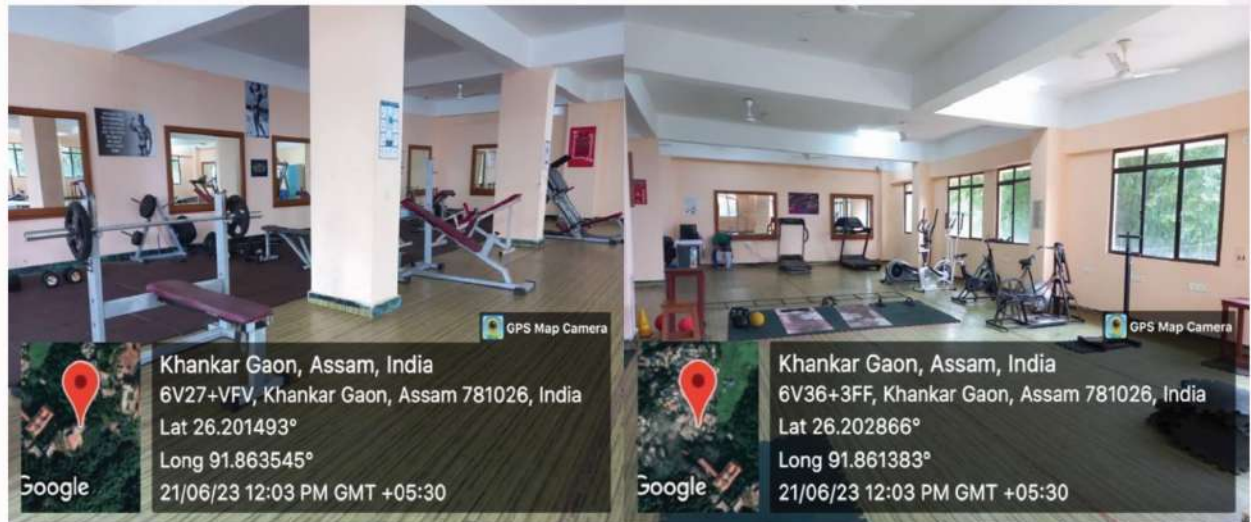
A. Hall - A: Auditorium I



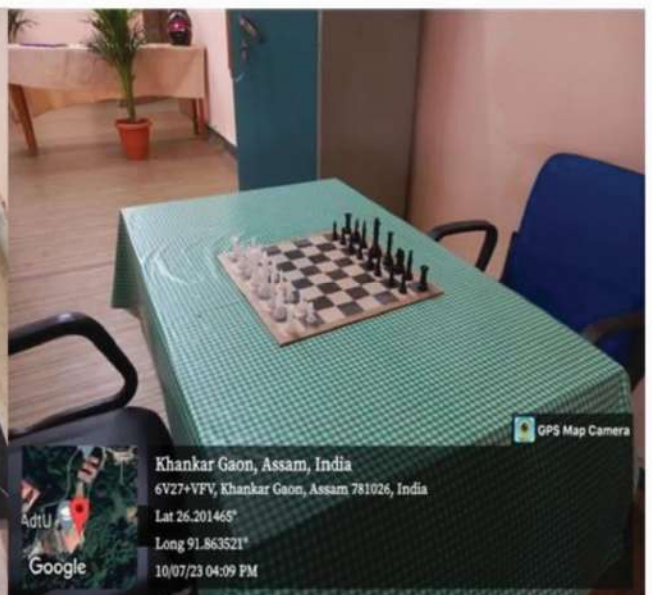
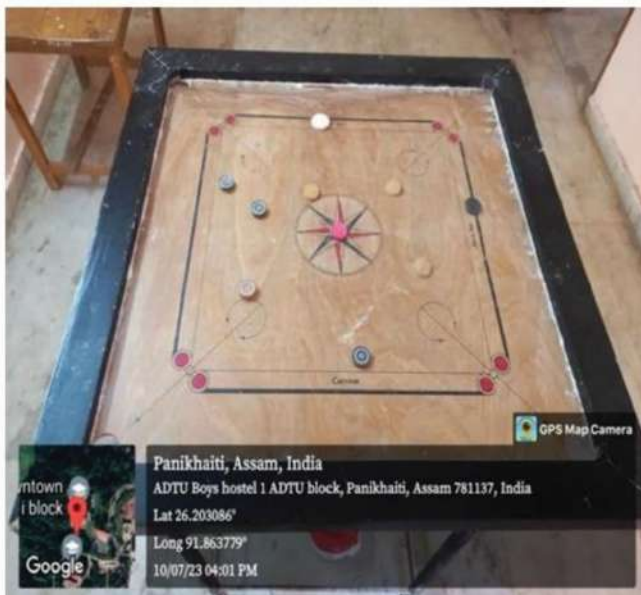
B. Hall - B: Auditorium II

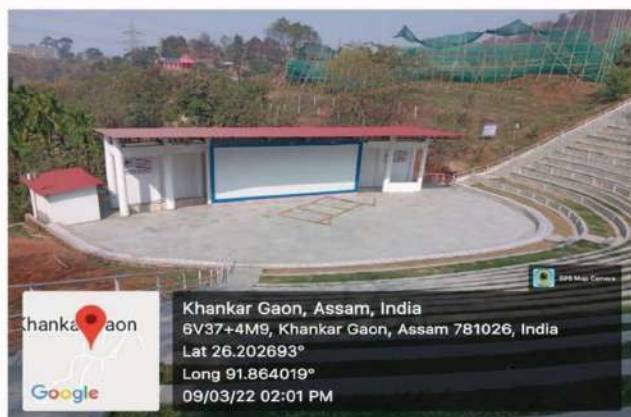


Glimpses of sports facilities



Glimpses of indoor facilities





4. Vehicle Management

The Institute at present provides the following vehicles for use by its stakeholders in carrying out different category of activities:

Sl. No.	Type of Vehicle	No.	Purpose
1.	Bus	14	Transportation of Students and Staff, Outreach Programme and Industrial Visits
2.	JCB	2	In-house Construction
3.	Mini DI 207	3	Canteen, Marketing and Construction related works, In-house material supply
4.	Tata winger	1	Strident Shuttle Services from Panchayat office to J Block in 3 Time slots
5.	Cars	4	Day to Day University Activities
6.	Private Car	2	1 each for Vice-Chancellor & Pro-Vice Chancellor

Years's Activity in sports

During the session, AdtU organized a variety of sports events for students, providing them with opportunities to showcase their athletic talents and engage in healthy competition. Substantial number of students participated as competitors in these events. To recognize and reward their achievements, certificates and medals were awarded to the top three finishers in each event, celebrating their dedication and excellence in sports. The below listed events were arranged during the sessions.

Carom Competition
Arm Wrestling (Boy's & Girl's)
Swimming Competition
Down town Premier League T1 2022
Kabaddi Competition
Chess Competition
Running Competition (Boy's & Girl's)
Badminton Tournament 2022 V.2 (Boy's & Girl's)
Volleyball Competition
Shot Put Throw Competition (Boy's & Girl's)
Discus Throw Competition (Boy's & Girl's)
Table Tennis Contest 2k23
Football Tournament 2023
Pool Championship 2023
Futsal Tournament 2k23 (Boy's & Girl's)
Tug of War Competition
Basketball Competition
Powerlifting Competition
Down town Premier League T2 2023
AdtU Inter College Champions Trophy 2023
Long Jump Competition
High Jump Competition

Further, a total of 60 awards and medals have been conferred to students for their exceptional performances in various sports and cultural activities across different levels of competition including state, regional, national, and international levels. This achievement highlights the remarkable talents and dedication of our students, as well as the institution's commitment to fostering excellence and recognizing outstanding contributions in both sports and cultural arena.

Key Knowledge Resources of AdtU

I. HNDB Central Library AdtU: In-House Digital Library services

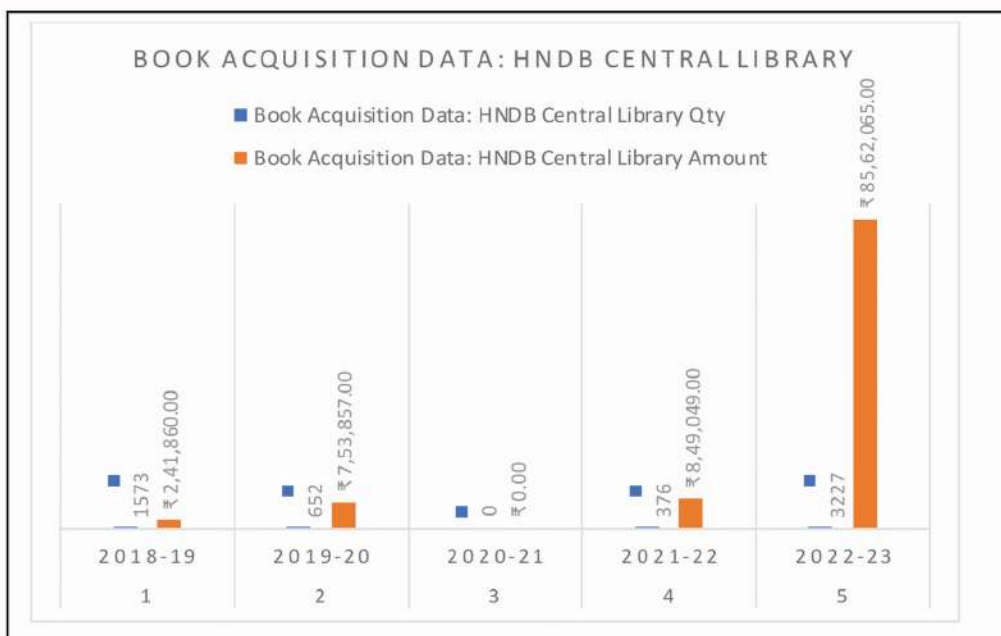


HNDB Central Library at AdtU

Features:

- Library Automation: started in 2017 with the software PRAN (The soul of the university).
- Circulation process of fully automated for around 26509 books which are already bar coded.
- Webpage: HNDB Central Library is maintaining web page with all the updated information of the library, under the home page of the University.

The link is: <https://adtU.in/hndb-library/>



E-Resources available in the HNDB Central Library:

1. J Gate (E journal Database)



J-Gate, an electronic gateway to global e-journal literature; is the most efficient comprehensive platform to access research information from over 55 Million journal articles (with access to 10 Million Full Text articles) coming from 59,000+ journals covering multiple subject domains across all disciplines.

2. The National Digital Library of India (NDLI)



National
Digital Library
of India

The National Digital Library of India (NDLI) is an all-digital library that stores information (metadata) about different types of digital contents including books, articles, videos, audios, thesis and other educational materials relevant for users from varying educational levels and capabilities. It provides a single-window search facility so that learners can retrieve the right resources with the least effort in minimum time.

Available Resources:

- Computer Science, Information & General Works: 1,64,60,295
- Philosophy and Psychology: 6,09,143
- Religion: 2,26,736
- Social Sciences: 60,36,472
- Language: 1,86,729
- Natural Sciences & Mathematics: 98,01,283
- Technology: 1,27,99,154
- The Arts; Fine & Decorative Arts: 19,13,117

- Literature & Rhetoric: 9,48,129
- History & Geography: 9,59,494

3. DELNET



DELNET was initially supported by the National Information System for Science and Technology (NISSAT), Department of Scientific and Industrial Research, Government of India. It was subsequently supported by the National Informatics Centre, Department of Information Technology, Ministry of Communications and Information Technology, Government of India and the Ministry of Culture, Government of India.

DELNET has been established with the prime objective of promoting resource sharing among the libraries through the development of a network of libraries. It aims to collect, store, and disseminate information besides offering computerised services to users, to coordinate efforts for suitable collection development and also to reduce unnecessary duplication wherever possible.

Resources:

- **3,50,00,000+ Books**
- **1,00,000+ list of Journals**
- **5,000+ Full-text E-journals**
- **1,00,000+ Thesis/Dissertations**

II. AdtU A Connect app in Google play store:



<https://my.adtu.in/>

<https://play.google.com/store/apps/details?id=com.geekworkx.myadtu.app>

Features:

- Accessible to all students and available on various platforms like web and mobile applications.
- Provides students with all the information they need to stay updated about their results, fee, and other events happening within the university.
- Updates about upcoming exams, time tables, and other important dates related to academic activities.
- Fee sections, where students can check their fee status, pay their fees online, and download their fee receipts.
- Events happening within the university, such as seminars, workshops, cultural events, and sports competitions.
- Provides students with an option to connect with their classmates, teachers, and university authorities.

Accolades

R
World Institutional
RANKING 

**MHW RANKING
2023**

Certificate of Outstanding Service

IN PURSUIT OF EXCELLENCE TOWARDS BEING A **TOP INSTITUTION
FOR CAMPUS LIFE**, THIS CERTIFICATE IS PRESENTED TO

Assam down town University, Guwahati

Ranked in GOLD Band

Across India for excellence in up-keeping
well-being of faculty, staff and students

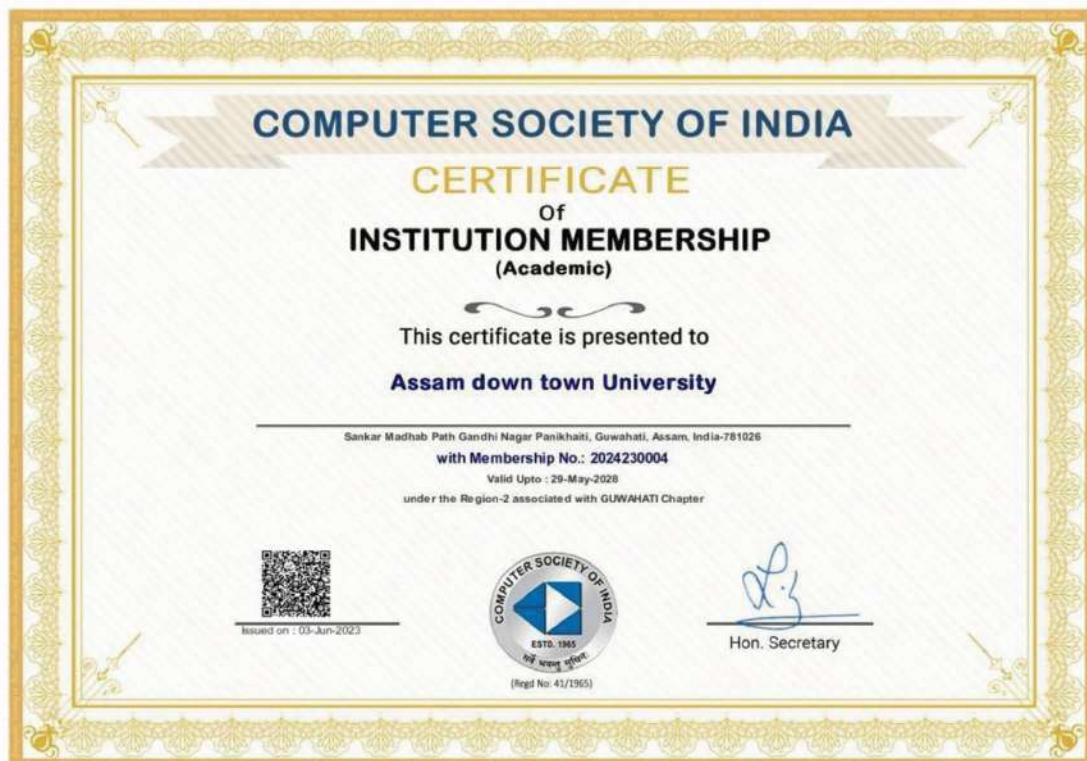


Executive President



wiranking.com

World Institutional Ranking 2023



Institution Membership Certificate, Computer Society of India, 2023



IAP Certificate, 2022



A faculty member has been honored by the Department of Biotechnology (DBT), Government of India, for a significant achievement. Starting from March 12, 2022, this three-year study will, for the first time, evaluate the relevance of biofertilizer technologies in maintaining crop productivity across ecologically sensitive regions, such as the Eastern and North Western Indian Himalayas. The study will involve extensive multilocation trials conducted on farmers' fields.

Number of awards/ recognitions received for innovation/discoveries by the Institution/teachers/research scholars/students from recognized bodies in 2022-23

Title of the innovation/Award	Name of the Awardee	Name of the Awarding Agency	Category-Institution/teacher/research scholar/student
National Rural Institutions Sustainability Grading	Assam down town University	Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, GoI, New Delhi	Institution
DELNET Membership	Assam down town University	DELNET, J.N.U. Campus, New Delhi	Institution
Outstanding University in Training and Placements	Assam down town University	Elets Technomedia Pvt. Ltd., Noida, Uttar Pradesh	Institution
Certificate of Appreciation in recognition of active participation in the National Intellectual Property Awareness Mission (NIPAM)	Assam down town University	Ministry of Commerce and Industry, Dept. for Promotion of Industry and Internal Trade, Office of the Controller General of Patents, Designs and Trademarks, GoI, New Delhi	Institution
Indian Record for <i>Most varieties of pastries</i>	Assam down town University	Limca Book of Records, https://www.eastmojo.com/assam/2023/03/28/assam-down-town-university-enters-limca-book-of-records/	Institution
Best Researcher Award	Mr. Ruhul Amin	Novel Research Academy, Puducherry, Tamil Nadu	Teacher
Best Paper Presentation	Ms. Dimpay Pathak Das	Department of Management Studies, National Institute of Technology, Hamirpur, Himachal Pradesh	Teacher
Academic Excellence Award	Dr. Dhruvjayoti Sarkar	Scientific International Publishing House, Mannargudi, Tamil Nadu	Teacher
Honoris causa Award	Mr. Rakibul Hasan Khan	Central Christian University, Blantyre, Malawi, East Africa	Teacher
SFE-Best Publication In Ethnopharmacology and Traditional Medicine Research Award - 2023	Dr. Minakshi Bhattacharjee	Society For Ethnopharmacology, Jadavpur, Kolkata	Teacher
3 rd Position in Paper Presentation (Senior Category)	Dr. Trishna Saikia Baruah	NEURAXIS-2023, East of Kailash, New Delhi	Teacher
2 nd Prize in Paper Presentation (Professional Category)	Dr. Abhijit Kalita	Assam Physiocon 2023, National Conference of Physiotherapy, Guwahati, Assam	Teacher
Best Researcher Appreciation	Dr. Abhijit Dutta	Osteo Manual Summit 2, Connaught Palace, New Delhi	Teacher
Best Mentor	Dr. Daisy Sharma	NERAMAC, GoI, Guwahati, Assam	Teacher
Mentor	Mr. Manash Jyoti Borah	NERAMAC, GoI, Guwahati, Assam	Teacher

Title of the innovation/Award	Name of the Awardee	Name of the Awarding Agency	Category- Institution/ teacher/research scholar/student
Best Supporting Actor, Female	Ms. Pankhi Kashyap	Prag Cine Awards 2022, Silchar, Assam	Teacher
Best Paper Award	Mr. Ankur Pan Saikia	MET Institute of Computer Science, Mumbai, Maharashtra	Teacher
Best Paper Award	Ms. Ananya Kalita	MET Institute of Computer Science, Mumbai, Maharashtra	Teacher
Certificate of Educational Professional Membership Qualification	Mr. Ruhul Amin	The Society of Innovative Educationalist & Scientific Research Professional, Chennai, Tamil Nadu	Teacher
Joint Convenor	Dr. Laishram Shantikumar Singh	Vibha Vani India, Assam Chapter and State Institute of Panchayat and Rural Development, GoA, Guwahati, Assam	Teacher
IOT in agriculture at OCTANE 2.0	Mr. Arnab Kumar Sarkar	STPI (Software Technological Park of India), Guwahati, Assam	Teacher
Development of bamboo wine	Mr. Yomgam Taji	NERAMAC, GoI, Guwahati, Assam	Student
Development of Crackers based on Joha Rice and Sattu powder with incorporation of Natural herbs powder	Ms. Nilakshi Bhagabati	NERAMAC, GoI, Guwahati, Assam	Student
Ready-to-cook pitha mix	Ms. Attreyee Mahanta	NERAMAC, GoI, Guwahati, Assam	Student
Pratibha Samman	Dr. Seema Sharma	Barpeta Pariwar, Guwahati, Assam	Teacher
Samman Patra	Dr. Seema Sharma	Marwari Sammelan Guwahati Mahila Sakha, Guwahati, Assam	Teacher
Associate Editor	Dr. T.V.V.L.N. Rao	Journal of Engineering Tribology, http://pij.sagepub.com/ , Committee on Publication Ethics (COPE)	Teacher
Editorial Board	Dr. T.V.V.L.N. Rao	Jurnal TRIBOLOGI, https://jurnaltribologi.mytribos.org/editor.html , Malaysian Tribology Society	Teacher
International Editors	Dr. T.V.V.L.N. Rao	Materials Research Communications, Pusat Publikasi Ilmiah ITS, Jawa Timur, Indonesia	Teacher
Review Editor	Dr. T.V.V.L.N. Rao	Frontiers in Mechanical Engineering: Tribology, https://www.frontiersin.org/journals/mechanical-engineering/sections/tribology	Teacher
Review Editor	Dr. T.V.V.L.N. Rao	Frontiers in Chemistry: Nanoscience, https://www.frontiersin.org/journals/chemistry/sections/nanoscience	Teacher

Title of the innovation/Award	Name of the Awardee	Name of the Awarding Agency	Category- Institution/ teacher/ research scholar/ student
Physio Excellence Award	Dr. Abhijit Dutta	Malla Reddy University, Hyderabad, Telengana and Physio Foundation of India, Ahmedabad, Gujarat	Teacher
AdtU Outstanding Researcher 2022-23	Dr. Saikat Sen	Assam down town University, Guwahati, Assam	Teacher
Best Teacher in Responding and Executing Task (BTRET)	Dr. Saikat Sen	Assam down town University, Guwahati, Assam	Teacher
2nd prize in Scientific poster presentation, PHYSIOCON 2023 (PG category)	Dr. Azariah Temotheus Chullai	Assam Physiocon 2023, National Conference of Physiotherapy at Srimanta Sankardev Kalakshetra, International Auditorium, Guwahati, Assam	Student

Invited lectures/Memorial lecture Session Chaired by Prof. (Dr.) N.C. Talukdar, Hon'ble Vice Chancellor of AdtU

1. Chaired presentations of the workshop titled "Techno-commercial Assessment of TRL 6 and above technologies developed in India by academia, research labs, and Industries organized jointly by TIFAC (Technology Information, Forecasting and Assessment Council, Department of Science & Technology), New Delhi, and NIPER Guwahati on 4th Nov, 2022 from 9:30 am onward in National Institute of Pharmaceutical Education and Research, Changsari campus, Rural Kamrup, Assam.
2. Key note Speaker on the Workshop on "Tradition and Health" organized by the Centre of Multidisciplinary Studies of Tezpur University (TU) on December 11, 2023 organized at the TU campus from 10 am.
3. D. N. Barua Memorial 10th Lecture delivered at the Conference room of Toklai Tea Research Institute, Tea Research Association on September 9th 2022.
4. Lecture as resource person on the topic "How to write scientific project proposal " on the occasion of Assam State Conclave on "Sustainable Livelihood through Science, Technology And Innovation Capabilities" for social institutions & organisations organized by Assam State Chapter of Vibha Vani India in association with State Institute of Panchayat and Rural Development, Govt. of Assam, State Innovation & Transformation Aayog, Govt. of Assam and Assam Science, Technology & Environment Council, Govt. of on Nov 27th, 2022 at SIPRD, Guwahati.

Prof. N.C. Talukdar is/has serving/served in different National and State level committee on Science and Technology.

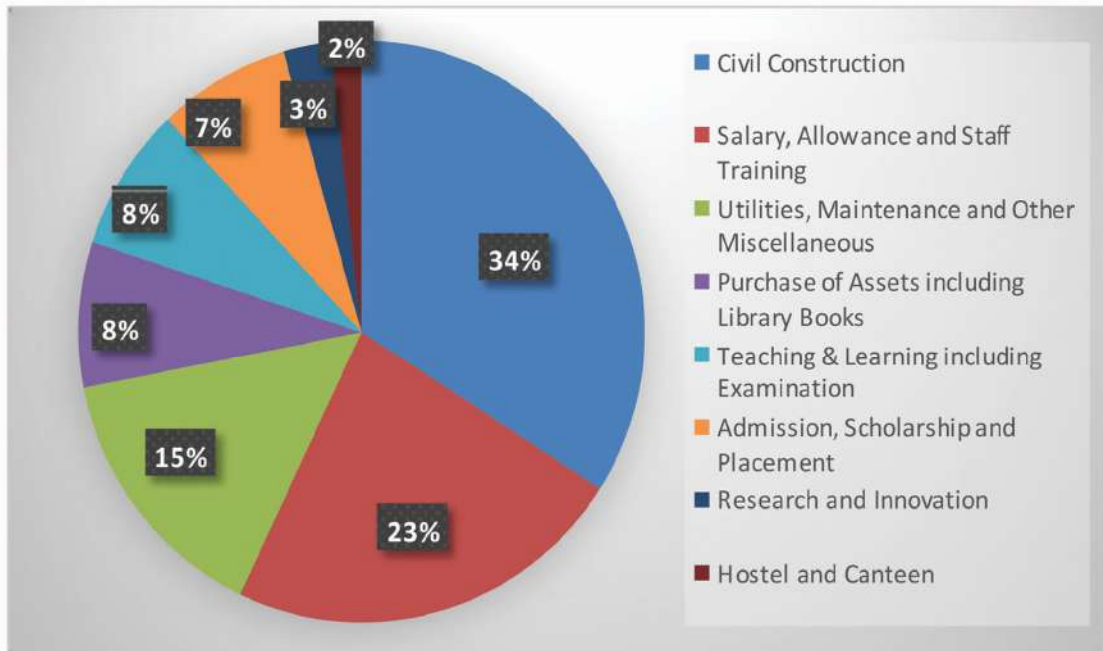
1. Chairman, Expert Committee, for Establishment of **Community COVID Resilience Resource Centres (CCRRCs) under SEED division, DST, Govt. of India, New Delhi, Duration: July 2020-June 2024.**

Title of the innovation/Award	Name of the Awardee	Name of the Awarding Agency	Category- Institution/ teacher/research scholar/student
		<p>2. Chairman, Expert Committee, Tribal Sub Plan of Science for Equity, Empowerment and Development (SEED) Division, DST, Govt. of India, New Delhi, Duration: May 2019-April 2025.</p> <p>3. Member, Research Advisory Committee, North East Centre for Science, Technology and Reach (NECTAR), Shillong under DST, Govt. of India, Duration: April 2021-March 2023.</p> <p>4. Member, Finance Committee, National Institute of Pharmaceutical Education and Research, Guwahati under Ministry of Chemicals and Fertilizers, Govt. of India, New Delhi.</p>	

Finance and Accounts

BUDGET FOR THE FINANCIAL YEAR 2022-23

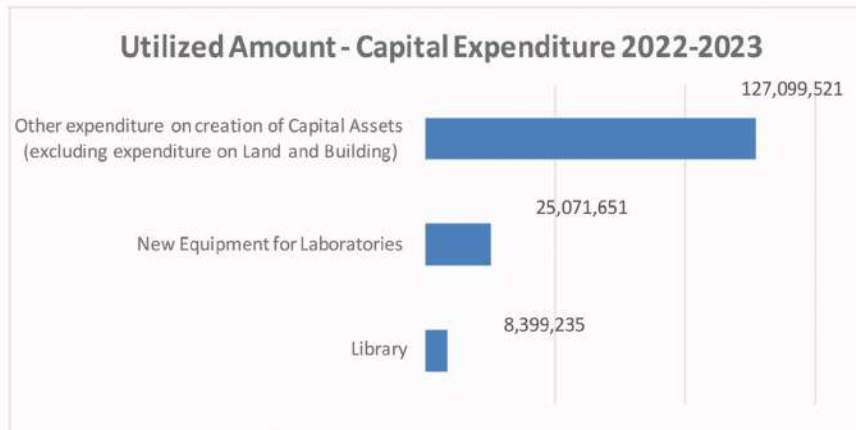
Sl. No.	Particulars	Amount (Rs. in Crores)	% Allocation
1	Civil Construction	29.85	34.10
2	Salary, Allowance and Staff Training	20.10	22.95
3	Utilities, Maintenance and Other Miscellaneous	13.00	14.85
4	Purchase of Assets including Library Books	7.10	8.11
5	Teaching & Learning including Examination	7.00	8.00
6	Admission, Scholarship and Placement	6.60	7.54
7	Research and Innovation	2.35	2.68
8	Hostel and Canteen	1.55	1.77
Total		87.55	100.00



Percentage allocation of AdtU overall Budget F. Y. 2022-2023

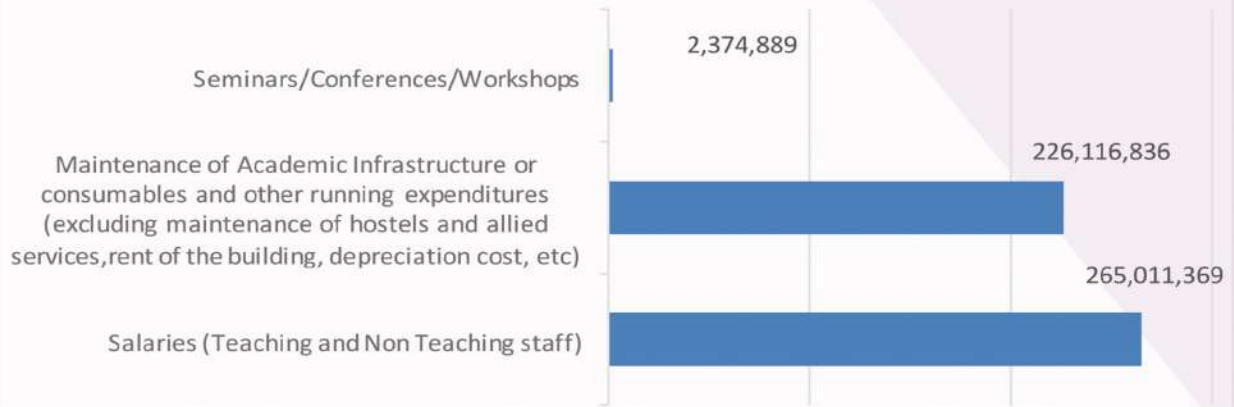
UTILIZATION OF FUNDS UNDER MAJOR FINANCIAL HEADS

Utilised Amount for the Capital Expenditure (In Rs.)		
Annual Capital on Academic Activities and Resources (Excluding Expenditure on Buildings)		
Particulars	2021-22	2022-23
Library	9,10,858	83,99,235
New Equipment for Laboratories	51,17,539	2,50,71,651
Other expenditure on creation of Capital Assets (excluding expenditure on Land and Building)	5,41,27,073	12,70,99,521



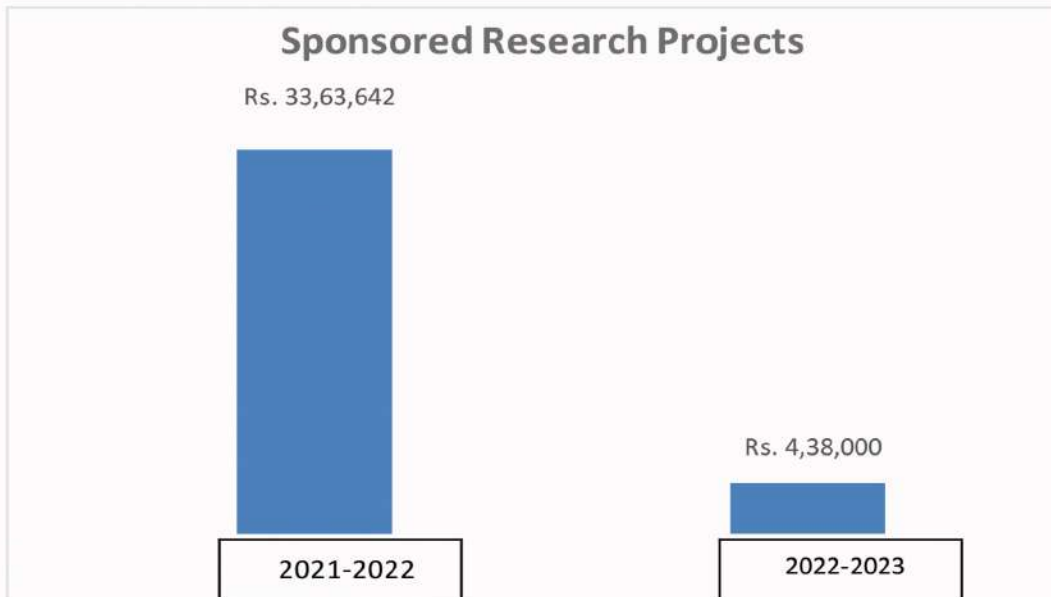
Utilised Amount for the Operational Expenditure (In Rs.)		
Annual Operational Expenditure		
Particulars	2021-22	2022-23
Salaries (Teaching and Non Teaching staff)	13,96,70,117	26,50,11,369
Maintenance of Academic Infrastructure or consumables and other running expenditures (excluding maintenance of hostels and allied services, rent of the building, depreciation cost, etc)	21,76,27,263	22,61,16,836
Seminars/Conferences/Workshops	2,64,364	23,74,889

Utilized Amount - Operational Expenditure 2022-2023



Expenditure for Sponsored Research & Consultancy Projects

Sponsored Research Details		
Particulars	2021-22	2022-23
Total no. of Sponsored Projects	3	2
Total no. of Funding Agencies	3	2
Total Amount Received (In Rs.)	33,63,642	4,38,000



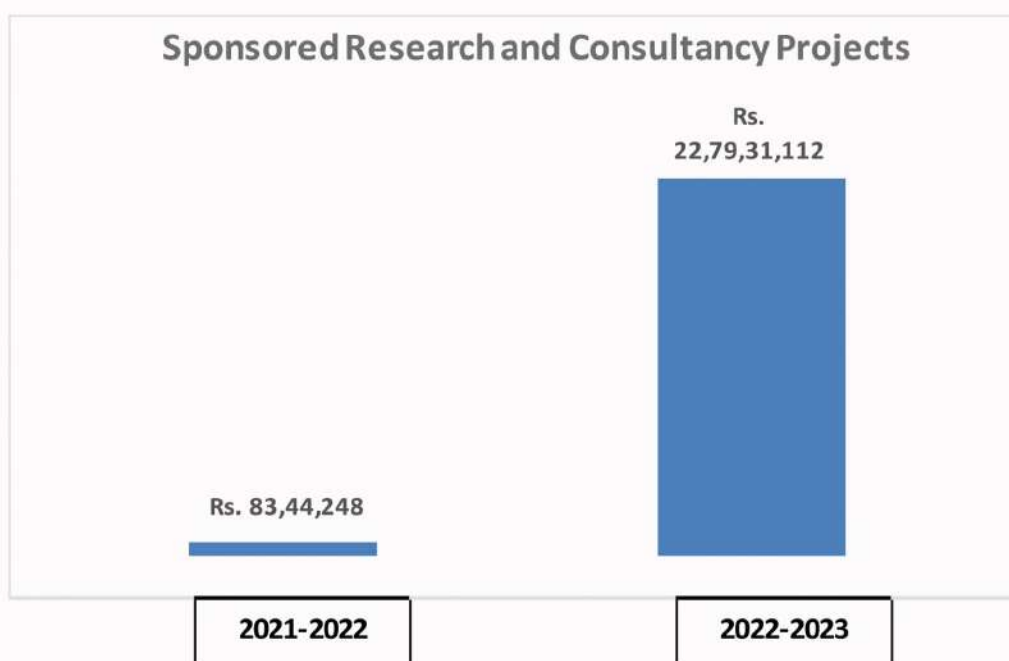
Consultancy Project Details		
Particulars	2021-22	2022-23
Total no. of Consultancy Projects	9	47
Total no. of Client Organizations	9	47
Total Amount Received (In Rs.)	49,80,606	22,74,93,112

Consultancy Projects



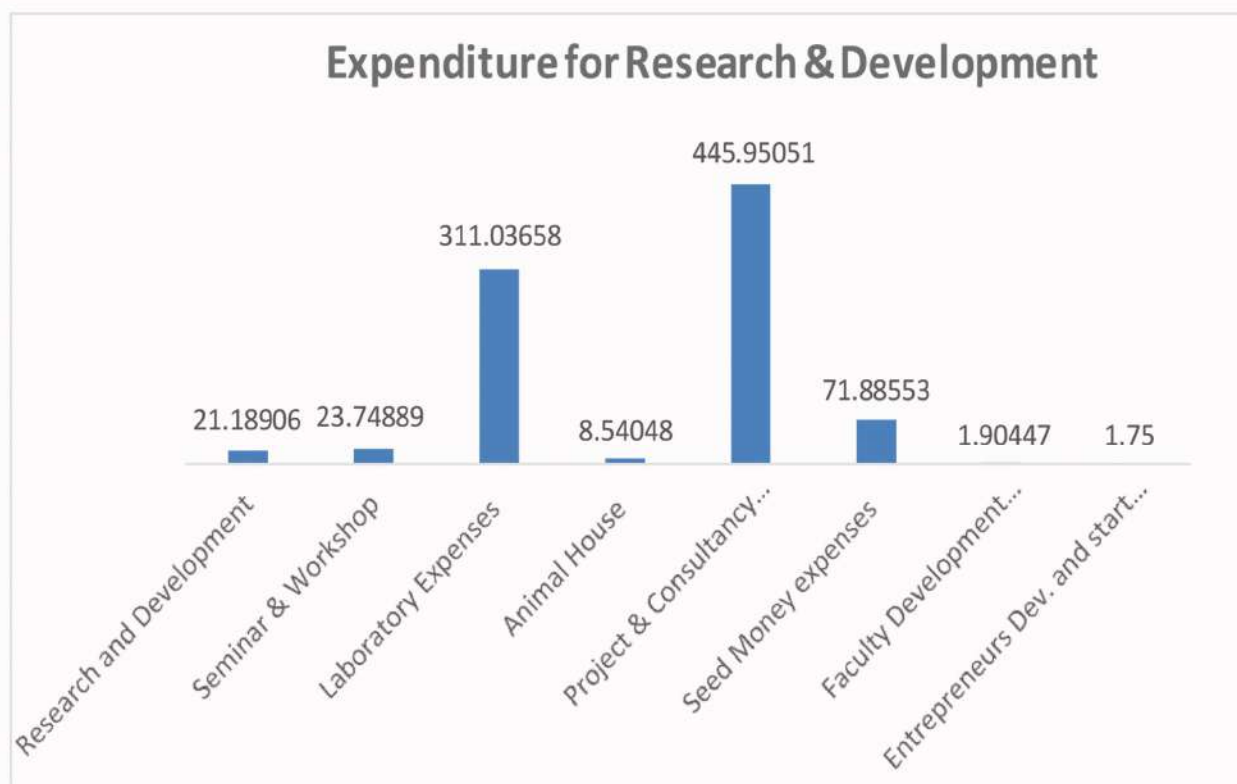
Sponsored Research & Consultancy Projects		
Particulars	2021-22	2022-23
Total no. of Projects	12	49
Total of Funding Agencies	12	49
Total Amount Received (In Rs.)	83,44,248	22,79,31,112

Sponsored Research and Consultancy Projects



Expenditure for Research and Development - F.Y. 2022-2023

Sl.No.	Particulars	Amount in Rs.
1	Research and Development	21.18906
2	Seminar & Workshop	23.74889
3	Laboratory Expenses	311.03658
4	Animal House	8.54048
5	Project & Consultancy Expenses	445.95051
6	Seed Money expenses	71.88553
7	Faculty Development Programme	1.90447
8	Entrepreneurs Dev. and start up	1.75
Total		886.00552



Down Town Charity Trust
Statement of Income and Expenditure for the year ended 31-03-2023
(Amount in Rs.)

Particulars	Note	31-03-2023	31-03-2022
Income			
i Students Fees		92,76,53,389	78,16,71,477
ii Canteen Sales		1,34,54,463	58,93,054
iii Project & Consultancy		21,04,10,112	13,61,38,978
iv Other Income	13	5,18,69,181	4,28,54,418
v Total Income (i+ii+iii+iv)		1,20,33,87,145	96,65,57,927
VI Expenses:			
Employee benefits expenses	14	37,85,87,670	25,18,52,793
Finance cost	15	2,32,46,231	2,18,09,571
Depreciation and amortization expense	8	17,81,99,247	12,82,41,368
Other expenses	16	41,16,21,581	32,70,25,194
Total expenses		99,16,54,729	72,89,28,926
vii Excess of Income over Expenditure for the year (V-VII)		21,17,32,416	23,76,29,001

Additional Information to the Financial statements 17

The Accompanying Notes 1 to 17 are an integral part of the financial statements

Place : Guwahati
Date : 28-09-2023

In terms of our Report of even date
For M/s Apurba Banerjee & Co.
Chartered Accountants



Apurba Banerjee
Registration No-314106E
(Apurba Banerjee)
Partner
Membership No-051628

UDIN: 23051628 B6 T EFD 1421

Highlights of the new education policy 2020:

- ❖ The present school system will be divided into 5 + 3 + 3 + 4 stages as Foundation, Preparatory, Middle & Secondary respectively.
- ❖ Mother tongue or regional language will be taught up to at least class 5.
- ❖ Vocational education will be integrated from class 6 with 10 days of mandatory internship.
- ❖ National Testing Agency will conduct SAT-Like college entrance tests twice a year.
- ❖ Students will be benefitted with a 4-Year multi-disciplinary bachelor's program.
- ❖ Mid-term drop-out students will be able to complete the degree after a break.
- ❖ Foreign colleges could enter India, and Indian universities would go global.

"The greatest religion is to be true to your own nature. Have faith in yourselves." - **Swami Vivekananda**

"Education is the most powerful weapon which you can use to change the world." - **Nelson Mandela**

"The purpose of education is to replace an empty mind with an open one." - **Malcolm S. Forbe**

Campus Location



Assam down town University
Sankar Madhab Path, Gandhi Nagar,
Panikhaiti,
Guwahati, Assam, India
781026



+91 93657 71454

Admission Helplines



+91 98641 37777

+91 93657 71454

+91 91270 70577 (International)

+91 60039 03317 (PhD)

Corporate Office



down town Charity Trust
3rd Building, 7th Floor,
down town Hospital Complex, Dispur,
Guwahati, Assam, India
781006



+91 9864137777



How to reach Assam down town University

City Office : 3rd Building, 7th Floor, down town hospital, G.S. Road, Dispur, Guwahati, Assam, 781006

Campus : Assam down town University, Sankar Madhab Path, Gandhi Nagar, Panikhaiti, Guwahati, Assam, 781026

www.adtu.in admission@adtu.in



ASSAM
down town
UNIVERSITY