

ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY



ANNUAL ADMINISTRATIVE REPORT 2024

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University Anthem

প্ৰযুক্তিৰ এই প্ৰান্ত প্ৰদেশ
এই সাঁকো নিৰ্মাণৰ দেশ
প্ৰযুক্তিৰ এই প্ৰান্ত প্ৰদেশ
এই সাঁকো নিৰ্মাণৰ দেশ
যি ভোগদৈখনি বোৱাই অনা কৃতিত্বৰ অৱশেষ
সাঁচিপাত, পাট-মুগা, কাহ পিতলৰ নিখুঁত নিৰ্মাণৰ ৰেশ
ৰূপহী অসমী- এই প্ৰান্ত প্ৰদেশ
ৰূপহী অসমী- এই প্ৰান্ত প্ৰদেশ।

আই অসমীৰ দুৰ্যোগো অশেষ
লাগে নতুন প্ৰযুক্তি, একাগ্ৰ আৱেশ
লৈ তাৰেই প্ৰেৰণা, তাৰেই আদেশ
নতুন প্ৰত্যয়েৰে থাপনা পাতিছো যি প্ৰযুক্তিৰ সমাৱেশ
যি জ্ঞানৰ প্ৰসাৰ আৰু সৃজনৰ লক্ষ্যেৰে
মানুহৰ সেৱাত নিৱেশ
মানুহৰ সেৱাত নিৱেশ।

গণ-সংযোগ, কৃত্ৰিম-বোধিৰ প্ৰসাৰিত শৌৰ্য
আমাৰ মুঠিত পৰমাণু-বক্ষৰ সন্মিত বীৰ্য
মহাকাশ আৰু ৰ'বট-প্ৰযুক্তিৰ বিশাল ঐশ্ৱৰ্য
শুনো কল্পনা-বাস্তৱ একাকাৰ কৰা নতুন প্ৰযুক্তিৰ তুৰ্য
নতুন প্ৰযুক্তিৰ তুৰ্য।

যন্ত্ৰেৰে হ'ব সেয়ে জীৱন উদযাপন জীৱনৰ বিস্তৃতি
আৰু থাপনাই কঢ়িয়াব-মানুহৰ নিচান, হৃদয়ৰ কৃষ্টি
হ'ব পৰিৱেশ-অনুকূল সমূহৰ কল্যাণ- ভাঁহে সেই অপৰূপ দৃষ্টি
নতুন প্ৰত্যয়েৰে থাপনা পাতিছো যি প্ৰযুক্তিৰ সমাৱেশ
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মানুহৰ সেৱাত নিৱেশ।

কথা: ড. অমৰজ্যোতি চৌধুৰী
সুৰ: প্ৰশান্ত কুমাৰ চৌধুৰী

Objectives of the University

1. Regulation of Courses and the Examination system for both Undergraduate and Postgraduates Programme including the degree leading to Ph.D. for Science and Technology discipline for all the Engineering Colleges in the state of Assam.
2. Introduction of Post Graduate Courses in identified thrust areas.
3. Establishment of Research and Development Activities.
4. Development of a Data Bank for Natural Resources. Assam Science and Technology University has been established to bring all the Engineering Colleges/Institutions of Assam under a single platform and to provide uniform standards of technical education.

Vision and Mission of the University

VISION:

1. Give synchronized strategic and operational leadership to technical education of Assam through a unified structure.
2. Create state of the art infrastructure and train excellent academic personnel to be with the international peers.

MISSION:

1. Establish a platform to participate together by Government and Private organization under unified umbrella.
2. Create facilities for all to participate; Interaction with industries.

STRATEGY:

- Interfacing between ASTU and Government Institutes.
- Immediate formation of review committees for Syllabi from all experts from Assam, AEC, JEC, IITG & others (confidence building); Introduce in 2017-18 session.
- Review new courses.
- Participation in various univ. boards by Senior Faculties of Government Institution.
- Establish QA programme to define roles and responsibilities of all stakeholders.
- Ph.D guide for qualified faculties of these organizations.
- Bring in freshness by augmenting infrastructure to be at par with recognized establishments; share them to optimize utilization.
- Seminars, Workshops, Brain storming meetings among stakeholders.

Report of the Vice Chancellor



Prof. Narendra S Chaudhari

Message from the Vice Chancellor

It gives me an immense pleasure to know that the Assam Science and Technology University is publishing its Annual Report for the session 2023-2024.

With an aim for enhancing quality and standard in the uniform course curriculum leading to research in the field of technical education, Assam Science and Technology University was established in the State of Assam in 2010. The University has been affiliating engineering colleges and technology courses. His Excellency Governor of Assam is the Chancellor of Assam Science and Technology University.

As per recent Amendment of Assam Science and Technology University (ASTU) Act, 2023, the University is now (w.e.f. 19th June, 2023) a teaching, research and affiliating University of Science and Technology and other allied subjects and the University has Assam Engineering College as Constituent College.

ASTU has been tackling challenges for implementation of Technical Education courses under the National Education Policy (NEP) 2020. The quality indicators of different criteria determined by the UGC has been taken into consideration as a based to quality and to determine for future roadmaps for the institution in delivering technical education in Assam. ASTU has equally feel the mandate given by 'Viksit Bharat' by 2047 through transformation for teaching delivery in technical education in the State of Assam.

The University is fully committed to the highest ideals of NEP education by breezing the culture of innovation in learning methods. It aims at the skill development of each student and focuses on a comprehensive and balance education. The University strives ethical and moral values in the engineering and technology students and encourages them to become integrated and wholesome individuals capable of handling their careers and lives effectively. The mission of the university is broadly classified as below and is given below:

- i. Knowledge creation for the societal growth and well-being through cutting edge research.
- ii. Creation of industry fit entrepreneurial human resource for improving quality of life.
- iii. Access to quality Higher Education for all.

- iv. Reduction of inequalities by enhancing gender parity and environmental awareness towards
- v. Sustainable Development Goals (SDGs).
- vi. Internationalization of Higher Education.
- vii. Achieve key learning outcomes from the core learning of science, technology disciplines through its curriculum.
- viii. Development of ethical values, scientific temper, spirit of service and capabilities across a range of disciplines.
- ix. Strengthen and promote multidisciplinary, cross-disciplinarily and inter-disciplinarily concept in mutually supporting inter-dependent learning avenues.
- x. To promote students to think, understand and perform through skills and competencies to enable critical thinking, creative thinking, innovation and problem-solving attitude.

I appreciate the employees of ASTU for contributing to Annual Report of Assam Science and Technology University for the session 2023-2024 extensively.



Vice Chancellor,
Assam Science and Technology University

Total Students

Year wise B.Tech degree awarded by ASTU:

A total of **5529** No. of students were awarded **B. Tech** degree since inception.

The year wise break up is as follows:

Sl.No.	Year	No. of students
1	2017	602
2	2018	582
3	2019	563
4	2020	469
5	2021	637
6	2022	1475
7	2023	1201
Total		5529

Year wise B.E. degree awarded by ASTU:

A total of **1010** No. of students were awarded **B.E.** degree since inception.

The year wise break up is as follows:

Sl.No.	Year	No. of students
1	2021	972
2	2022	36
3	2023	02
Total		1010

Year wise M.Tech degree awarded by ASTU:

A total of **350** No. of students were awarded **M.Tech** degree since inception.

The year wise break up is as follows:

Sl.No.	Year	No. of students
1	2015	11
2	2016	28
3	2017	09
4	2018	21
5	2019	04
6	2020	58
7	2021	55
8	2022	80
9	2023	84
Total		350

Year wise M.E. degree awarded by ASTU:

A total of **29** No. of students were awarded **M.E. degree since inception**.
The year wise break up is as follows:

Sl.No.	Year	No. of students
1	2019	24
2	2020	02
3	2021	01
4	2022	01
5	2023	01
Total		29

Year wise other Undergraduate Degree/Diploma awarded by ASTU:

A total of **2061** No. of students were awarded under graduate degree **since inception**.
The year wise break up is as follows:

Year 2017:

Sl.No.	Programs	No. of students
1	B.Pharm	50

Year 2018:

Sl.No.	Programs	No. of students
1	B.Pharm	56

Year 2019:

Sl.No.	Programs	No. of students
1	B.Pharm	54
2	B.Arch	17
3	B.Sc	08
Total		79

Year 2020:

Sl.No.	Programs	No. of students
1	B.Pharm	47
2	B.Arch	12
3	B.Sc	37
4	B.Des	14
5	BCA	07
6	D.Pharm	52
Total		169

Year 2021:

Sl.No.	Programs	No. of students
1	B.Pharm	137
2	B.Arch	21
3	B.Sc	160
4	B.Des	16
5	BCA	25
6	Diploma in Tea Management	34
7	D.Pharm	115
8	B.Pharm (Practice)	22
9	BBA	03
Total		533

Year 2022:

Sl.No.	Programs	No. of students
1	B.Pharm	227
2	B.Arch	16
3	B.Sc	143
4	B.Des	28
5	BCA	36
6	D.Pharm	145
7	BBA	09
Total		604

Year 2023:

Sl.No.	Programs	No. of students
1	B.Pharm	253
2	B.Arch	17
3	B.Sc	92
4	BCA	43
5	D.Pharm	90
6	B.Pharm (Practice)	06
7	BBA	20
8	BTM	03
9	Diploma in Tea Management	37
10	Advanced Diploma in Occupational Safety, Health and Environment	09
Total		570

Year wise other Postgraduate Degree awarded by ASTU:

A total of **1771** No. of students were awarded post graduate degree since inception.
The year wise break up is as follows:

Year 2015:

Sl.No.	Programs	No. of students
1	MBA	74
2	M.Pharm	7
Total		81

Year 2016:

Sl.No.	Programs	No. of students
1	MBA	56
2	M.Pharm	12
3	MCA	21
Total		89

Year 2017:

Sl.No.	Programs	No. of students
1	MBA	59
2	M.Pharm	10
3	MCA	22
4	M.Arch	06
Total		97

Year 2018:

Sl.No.	Programs	No. of students
1	MBA	47
2	M.Pharm	11
3	MCA	10
4	M.Arch	06
5	M.Plan	06
6	M.Sc	03
Total		83

Year 2019:

Sl.No.	Programs	No. of students
1	MBA	26
2	M.Pharm	10
3	MCA	14
4	M.Plan	06
5	M.Sc	07
Total		63

Year 2020:

Sl.No.	Programs	No. of students
1	MBA	30
2	M.Pharm	13
3	MCA	38
4	M.Plan	04
5	M.Sc	60
6	MBA Trimester Mode	58
Total		203

Year 2021:

Sl.No.	Programs	No. of students
1	MBA	52
2	M.Pharm	14
3	MCA	81
4	M.Plan	11
5	M.Sc	115
6	MBA Trimester Mode	65
Total		338

Year 2022:

Sl.No.	Programs	No. of students
1	MBA	38
2	M.Pharm	35
3	MCA	137
4	M.Plan	12
5	M.Sc	165
6	MBA Trimester Mode	67
7	M.Voc in Food Processing and Quality Management	16
8	MSW	02
Total		472

Year 2023:

Sl.No.	Programs	No. of students
1	MBA	28
2	M.Pharm	40
3	MCA	52
4	M.Plan	07
5	M.Sc	140
6	MBA Trimester Mode	36
7	Masters in Hospital Administration	22
8	MSW	14
9	MTM	06
Total		345

Common Uniform Academic Curriculum

Advancing Education Through a Common Uniform Academic Curriculum

The Assam Science and Technology University has always been committed to fostering academic excellence and providing students with a comprehensive educational experience that prepares them for the challenges of the modern world. In pursuit of this goal, we have implemented a Common Uniform Academic Program across all departments and disciplines. This program represents a significant step forward in standardizing our academic offerings and ensuring consistency and quality across the university.

The Common Uniform Academic Program is designed to streamline the academic experience for students while maintaining the integrity and diversity of our curriculum. It encompasses a set of core courses and academic standards that are consistent across all departments, supplemented by specialized courses tailored to each discipline.

Key Features:

1. Core Curriculum: The program includes a carefully curated set of core courses that all students are required to complete regardless of their major. These courses cover essential subjects such as mathematics, natural sciences, humanities, and social sciences, providing students with a well-rounded education.

2. Interdisciplinary Approach: One of the hallmarks of our program is its emphasis on interdisciplinary learning. We encourage students to explore connections between different fields of study and to approach complex problems from multiple perspectives. This interdisciplinary approach fosters creativity, critical thinking, and innovation.

3. Flexibility and Choice: While the core curriculum provides a solid foundation, students also have the flexibility to tailor their academic journey to their interests and career goals. They can choose from a wide range of elective courses within their major as well as opportunities for interdisciplinary study and experiential learning.

4. Academic Support: We are committed to supporting student success every step of the way. Faculty advisors work closely with students to help them navigate their academic requirements, choose courses, and plan for their future careers. Additionally, we offer a variety of academic support services, including tutoring, workshops, and study groups, to ensure that all students have the resources they need to excel.

In conclusion, the implementation of the Common Uniform Academic Curriculum at Assam Science and Technology University represents a significant milestone in our ongoing pursuit of academic excellence. By providing students with a solid foundation in core knowledge and skills while fostering interdisciplinary learning and innovation, we are preparing them to succeed in an increasingly complex and interconnected world. We are proud of the impact that this program has had on our university community and look forward to building on its success in the years to come.

Entrance Examination

I. Combined Entrance Examination (CEE), 2022

As authorized by Govt. of Assam, Combined Entrance Examination (CEE) has been conducted in nine (09) districts of the state of Assam, for admission into 1st Semester of B.Tech. Programmes in the Engineering Colleges of Assam, for the Academic Session 2022-23.

Variable data printed OMR answer sheet was used in this examination. The examination was of Multiple-Choice Questions (MCQ) type and comprised of a Single Paper of 3 (three) hours duration with three (03) different subjects, viz. Mathematics, Physics and Chemistry. Following was the marks distribution:

- a) Mathematics : 40 Questions
- b) Physics : 40 Questions
- c) Chemistry : 40 Questions

Total seven thousand seven hundred sixty-three (7763) candidates have been enrolled for the said examination. CEE-2022 was conducted successfully on 31st July, 2022 in 13 examination centres. The result was declared on 9th August, 2022.

II. Joint Lateral Entry Examination (JLEE), 2022 and Joint MCA Entrance Examination (JMEE) 2022

As authorized by Govt. of Assam, Joint Lateral Entry Examination (JLEE), 2022, for admission to 3rd Semester B. Tech. Programme in the Engineering Colleges of Assam and Joint MCA Entrance Examination (JMEE), 2022, for Admission into 1st Semester of MCA Programme, have been conducted for the Academic Session 2022-23.

Variable data printed OMR answer sheet was used in this examination. The examination was of Multiple-Choice Questions (MCQ) type and comprised of a Single Paper of 3 (three) hours duration.

JLEE-2022 was conducted with twelve (12) different subjects, viz. Mathematics, Basics of Computer Science, Engineering Graphics and Branch of Engineering (09 branches). Following was the marks distribution:

- a) Mathematics 30 Questions
- b) Basics of Computer Science 10 Questions
- c) Engineering Graphics 10 Questions
- d) Branch of Engineering (09 branches) 50 Questions

JMEE-2022 was conducted with four (04) different subjects, viz. Mathematics, Reasoning, English and Fundamentals of Computing. Following was the marks distribution

- a) Mathematics 30 Questions
- b) Reasoning 30 Questions
- c) English 20 Questions
- d) Fundamentals of Computing 20 Questions

Total two thousand fifty-six (2056) candidates have been enrolled for the JLEE-2022 and three hundred seventy-four (374) candidates have been enrolled for the JMEE-2022.

JLEE-2022 and JMEE-2022 were conducted successfully on 7th August, 2022 in 05 examination centres. The result was declared on 16th August, 2022.

National Academic Depository (NAD)

Assam Science and Technology University (ASTU) has started the process of digitalization of academic records with National Academic Depository (NAD), in accordance with the direction of the Ministry of Human Resource Development (MHRD), Government of India and University Grants Commission (UGC). The University is presently registered with DigiLocker NAD and uploaded 1572 nos. of original certificate data after the 1st Convocation.

Academic Bank of Credit (ABC)

Assam Science and Technology University (ASTU) has registered with Academic Bank of Credit (ABC) to join the digital initiative of publishing all the academic awards digitally for seamless sharing and exchange of data among various academic institutions across domains (as per the suggestion of letter of All India Council for Technical Education (AICTE), bearing No. DO.NeGD/01-05/2018, dated 06/05/2022).

As per the letter of All India Council for Technical Education (AICTE), bearing No. ATAL/AICTE/2022-23, dated June 14, 2022 and email communication received from DigiLocker NAD, total 1995 nos. of marksheet data of B.Tech 3rd semester programme for 2021 batch have been uploaded in Academic Bank of Credit (ABC) through DigiLocker NAD. Uploading of remaining academic data (marksheet data) with students' earned credit obtained during or after the academic year 2021-2022 is in process.

Implementation of NEP 2020

The National Education Policy 2020 (NEP 2020) as evinces by Govt. of India has also been incorporated by the appropriate statutory body of the University. The Academic Council of the University vide its resolution has agreed to apply the principles of NEP 2020 in different courses of the University.

Higher education plays an extremely important role in promoting human as well as societal well-being and in developing India as envisioned in its Constitution - a democratic, just, socially-conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all. Higher education significantly contributes towards sustainable livelihoods and economic development of the nation. As India moves towards becoming a knowledge economy and society, more and more young Indians are likely to aspire for higher education.

For the purpose of developing holistic individuals, it is essential that an identified set of skills and values will be incorporated at each stage of learning, from pre-school to higher education.

At the societal level, higher education must enable the development of an enlightened, socially conscious, knowledgeable, and skilled nation that can find and implement robust solutions to its own problems. Higher education must form the basis for knowledge creation and innovation thereby contributing to a growing national economy. The purpose of quality higher education is, therefore, more than the creation of greater opportunities for individual employment. It represents the key to more vibrant, socially engaged, cooperative communities and a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation.

NEP 2020 policy envisions a complete overhaul and re-energising of the higher education system to overcome these challenges and thereby deliver high-quality higher education, with equity and inclusion.

By 2040, all higher education institutions (HEIs) shall aim to become multidisciplinary institutions and shall aim to have larger student enrolments preferably in the thousands, for optimal use of infrastructure and resources, and for the creation of vibrant multidisciplinary communities. Since this process will take time, all HEIs will firstly plan to become multidisciplinary by 2030, and then gradually increase student strength to the desired levels.

At the University level, the Assam Science and Technology University has also taken drastic modification of the curriculum along with necessary changes in all the existing and new courses of the University.

The Director of Higher Education, Govt. of Assam, has designed a framework for various degree courses in Science, Arts, Commerce and other streams converting all the three years degree courses to four years UG programme as per the principles of NEP 2020. The three years B.Sc. courses have been redesigned to four year under graduate programme (FYUGP). The university has restructured the Board of Studies for few courses like Bachelor of Science in Physics, Bachelor of Science in Chemistry, Bachelor of Science in Mathematics, Bachelor of Science in Food Nutrition and Dietetics, Bachelor of Science in Information Technology, Bachelor of Science in Bio-Technology and Bachelor of Science in Interior Design.

The Director of Technical Education, Govt. of Assam, has designed a framework for various degree courses in Engineering and Technology as per the principles of NEP 2020. The university has restructured the Board of Studies for Engineering and Technological degree courses like B.Tech, B.Arch, etc. The curriculum for technical education in the state of Assam will be effective from the next academic session i.e. 2024-25. The AICTE guidelines given from time to time while framing the course structure for B.Tech and M.Tech courses has been taken into consideration.

The pedagogical changes in the teaching learning environment has been incorporated as per the Government guidelines in the above-mentioned courses. The components like Skill, Multidisciplinary subjects, Indian Knowledge System, etc. are taken into consideration while designing the curriculum of the courses. Special credit provisions are being incorporated in the course structure as per the importance of the courses. The NEP 2020 also provides scope of multilevel entry and exit of the students at different courses.

University has started the academic session 2023-24 for the four-year NEP based programs through Samarth ERP system. The University has conducted the examinations for the programs Bachelor of Science in Physics, Bachelor of Science in Chemistry, Bachelor of Science in Mathematics, Bachelor of Science in Food Nutrition and Dietetics, Bachelor of Science in Information Technology, Bachelor of Science in Bio-Technology and Bachelor of Science in Interior Design through the Samarth ERP system and is now in the process of completing the post examination steps for the same.

The University is planning to start other degree technical programs through Samarth ERP system in coming academic session once the modality of the programs is fixed by the members of Govt. of Assam.

Message from the Registrar

It is with great pleasure and a profound sense of pride that I present to you the Annual Administrative Report of Assam Science and Technology University (ASTU) for the year 2023-24. This document serves as a comprehensive overview of the significant accomplishments, milestones, and progress made by our esteemed institution over the past year.



At ASTU, we are committed to fostering academic excellence, innovation, and a vibrant community dedicated to the pursuit of knowledge and the betterment of society. Throughout the years, our faculty, staff, students, and alumni have demonstrated unwavering dedication, resilience, and creativity in advancing our mission despite the challenges posed by various global and local dynamics.

The 2023-24 Annual Administrative Report of ASTU highlights our collective achievements across various fronts, including academic programs, research endeavours, student initiatives, community engagement, and institutional development. From fundamental research works to transformative educational experiences, each accomplishment underscores our commitment to excellence and impact. We continued to invest in our faculty and staff, providing them with the resources, support, and opportunities necessary to thrive in their roles as educators, scholars, and leaders. Through their dedication and expertise, they have enriched the academic experience, mentored future generations of leaders, and contributed significantly to knowledge creation and dissemination.

Our students remain at the heart of everything we do at ASTU. In 2023-24, they have demonstrated remarkable resilience, adaptability, and passion for learning, even in the face of unprecedented challenges. Whether through innovative research projects, community service initiatives, or artistic endeavours, our students have embraced opportunities for personal and intellectual growth, making invaluable contributions to our campus and beyond.

As an institution dedicated to excellence and service, we remain committed to continuous improvement, innovation, and collaboration in all aspects of our mission. Together, we will build upon our successes, address challenges, and seize opportunities to further elevate ASTU as a leader in technical education and a catalyst for positive change in our society.

I extend my heartfelt gratitude to all members of the ASTU community faculty, staff, students, alumni, donors, and partners for their dedication, passion, and unwavering support. Their collective contributions are integral to the success and vitality of our institution, and I am profoundly grateful for the privilege of leading such an extraordinary community.

Thank you for your ongoing commitment to ASTU and its mission. I invite you to explore this Annual Administrative Report to learn more about the remarkable achievements and impactful initiatives that have defined our journey.

With warm regards,

A handwritten signature in black ink, appearing to read 'Nripen Das', written over a light blue horizontal line.

Dr. Nripen Das

Registrar, ASTU

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Academic Activities

Academic Programs and Admission, 2022-23

The University provides education and research in the field of science & technology and other professional courses through 37 affiliated colleges in the disciplines of science, technology and professional programmes. At present all the government engineering colleges of Assam are affiliated with Assam Science and Technology University. The university also provides through its on-campus programs- M.Tech Energy Engineering and Doctoral Programs.

All the courses under the university are revised based on the recommendations of regulatory bodies such as AICTE, UGC, PCI, CAI, ICAR etc. The university is planning to implement the NEP 2020 in the curriculum of the University. The status of course-wise admission under the university for the year 2023-24 is given below:

Enrolment for Academic Session: 2023-24

Year	Male	Female	Total
2023-24	2268 (70.85%)	933 (29.15%)	3201 (100%)

Category-wise Registration 2023-24

Sl. No.	Categories	2023-24
1	General	1467 (45.8%)
2	SC	199 (6.2%)
3	OBC/MOBC	199 (6.2%)
4	ST	458 (14.4%)
Total		3201 (100%)

Program-wise Enrolment (2022-23)

Sl. No.	Programme	No. of Student
1	Advance Diploma	10
2	Bachelor of Architecture	23
3	Bachelor of Pharmacy	31
4	Bachelor of Science (Hons.)	32
5	Bachelor of Technology	2434
6	Bachelor of Business Administration	8
7	Bachelor of Computer Applications	41
8	Bachelor of Tourism Management	10
9	Diploma	36
10	Integrated M.Sc	4
11	Master of Pharmacy	41

Sl. No.	Programme	No. of Student
12	Master of Planning	9
13	Master of Science	157
14	Master of Technology	84
15	Master of Vocational Courses	4
16	Masters in Hospital Administration	17
17	Master of Computer Applications	63
18	Master of Tourism Management	17
19	Undergraduate	112
20	Bachelor of Pharmacy(Practice)	9
21	MBA Trimester Mode	59
Total		3201

Meetings of the Academic Council & Board of Studies

The meetings of the Academic Council of the Assam Science and Technology University held during 2023-24 are as follows:

Meetings of the Academic Council held during 2023-24

Sl. No.	Particulars	Date of the meeting
1	27 th Academic Council Meeting	17/02/2023
2	28 th Academic Council Meeting	31/05/2023
3	29 th Academic Council Meeting	07/12/2023

The council meeting approved the ERP system applicable to all courses with immediate effect of the University. The Academic calendar for 2023-24 was discussed in the council meeting. The admission of ADF scholars for AICTE doctoral fellowship was approved in the council for the applicants covering different engineering branches of Chemical Engineering, Energy Engineering, Mechanical Engineering, Computer Science and Engineering. The 29th Academic Council approved the degrees to 2421 candidates covering odd semester 2022 to even semester 2023 passed out students for the 4th convocation of the University that was conducted on 18th December 2023 along with the list of gold medallist and program toppers. The implementation of NEP 2020 was decided as per the notification of Govt Of Assam in various courses of the University following the model framework as published by the Government. The respective BOS will formulate the course curriculum for each and every course of the University. The council also adopted the UGC (minimum standards and procedures for award of PhD degree) Regulations 2022 to be implemented for conducting research leading to PhD degree by the University. The Council approved the promotion of two academic programme simultaneously as per UGC guidelines. The council also approved the adoption of Academic Collaboration between Indian and Foreign higher educational institutions to offer Twinning, Joint degree and Dual-degree programmes. The Council resolved the implementation of the unified credit framework at National Higher Educational Qualification Framework (NHEQF)/ National Skill Qualification Framework (NSQF) for the movement from professional/vocational education to Engineering and Technology. The Council proposed to make the ABC id mandatory for all students. The Academic Regulations for Four Year Under Graduate Programme (FYUGP) was approved in the council. It was resolved to adopt 40% of courses per semester through MOOCs.

Research Infrastructure

Lab-I: Multi-disciplinary Experimental and Testing Accessible Laboratory

(METAL): On-going R&D activities under the lab are:

- (i) Development of novel anti-corrosive coating (polymer to metal coating)
- (ii) Development of Silicon thin film for photovoltaics application
- (iii) Improve the seed germination and production yield of different seeds using cold air plasma technology
- (iv) Synthesis of graphene-based battery material for electric vehicle
- (v) Plasma Pyrolysis Process for municipal solid waste disposal

Available Facilities:

iPVD reactor: The state-of-the-art technology allows the deposition of metals, alloys, ceramic, and polymer thin films onto a wide range of substrate materials. The ultra-high vacuum iPVD reactor is designed by ASTU and fabricated at Excel Instruments, Maharashtra. The total cost of the whole set up is around 70.0 lakhs.



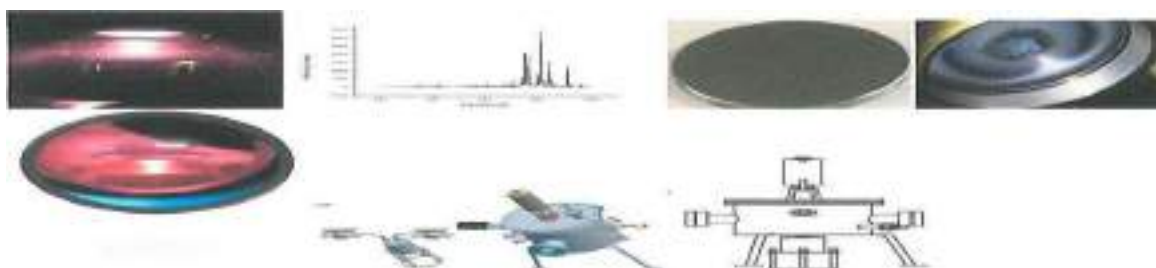
EGDR: The Experimental Glow Discharge Reactor can be used to study for plasma agriculture, plasma nitriding and also for basic research. The reactor is designed by ASTU and fabricated at ETS, Ahmedabad. The total cost of the whole set-up is around 10.0 lakhs.



TTO Derived Plasma Reactor:

The set-up is designed by ASTU and fabricated at Excel Instruments, Maharashtra. The total cost of the whole set-up is around 1.0 lakhs. The reactor is designed to study the TTO film for biomedical applications.

Other important instruments/equipment in the lab are HR Optical emission/absorption spectrometer, Contact angle measurement set up, High voltage DC power supplies, RF power supply, DSO, Function generator, Ultrasonicator, Magnetic stirrer, water analysis kit, Heating and cooling assembly, etc



Lab-II: Material Science Research Laboratory (MSRL): The main on-going Research activities in the lab is development of new aluminum and magnesium alloys

Materials Science and Technology are advancing fast and are of particular relevance for industry and society as materials create added value in most products. At the same time, costs must be minimized, sustainability improved, and products rendered more attractive, portable, or usable by making them smaller and lighter. The establishment of this research laboratory at present will help the researchers to develop new alloys specially for aluminium and magnesium alloys, sample preparation for microstructure studies, mechanical property determination, characterization, heat treatment and composition analysis of alloys.



Available facilities are I. Muffle Furnace (Programable) 2. Oven 3. Stir Casting Melting Furnace with vacuum die attachment (for aluminium and Magnesium alloys) 4. Diamond Sectioning Machine 5. Automatic Polishing Machine 6. Optical Emission Spectrometer (Fe and Al base) 7. Optical Microscope with image analyser 8. Micro-Hardness Tester with camera attachments 9. Mounting Press (cold and hot) 10. Rockwell Hardness tests

Lab-III: Energy Research Laboratory

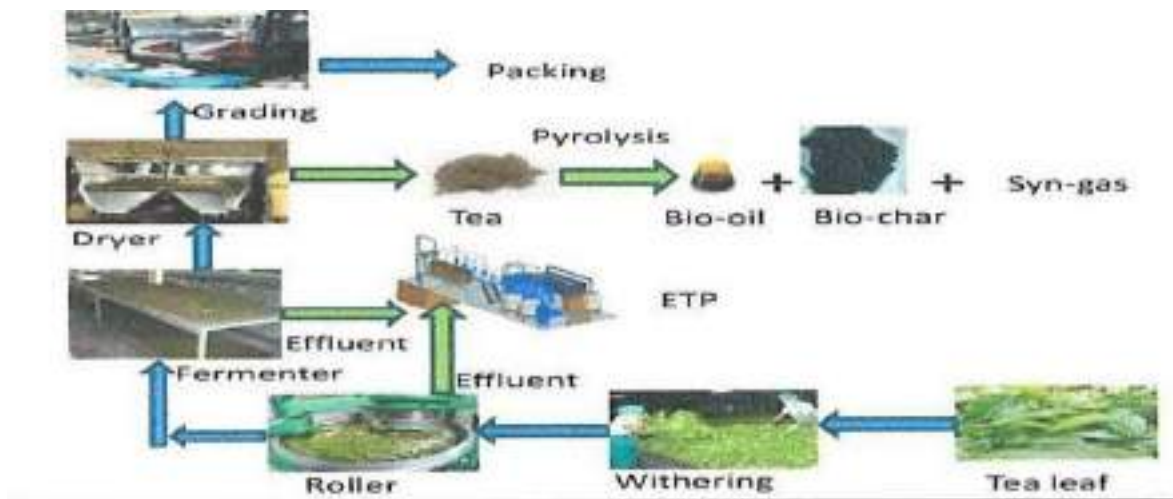
The major types of equipment available in the Energy Research Laboratory are: Thermogravimetric Analyzer (TGA), Differential Scanning Calorimetry (DSC), Pyrolysis Unit (lab scale), Bomb Calorimeter, Rheometer, Flash Point and Fire Point Apparatus, Cloud Point and Pour Point Apparatus, Flue gas analyzer, Single Phase power Analyzer, Hot air oven, Muffle Furnace, Soxhlet Extraction Unit, Solar Cooker, Muffle Furnace, Soxhlet Extraction Unit, Solar Cooker, Biomass Cooking Stoves, Hybrid Solar PV Plant, Flat Plate Collector, Evacuated Tube Collector, Pyranometer, Sunshine Duration Recorder, Weather metering system, Water/Soil analysis kit, Electrical Shaker with Auger, Flame photometer, Centrifuge, Atomic absorption spectrometer, pH meter, IC Engine System.

Some Of the major research outputs during 2022-2023 (publications in reputed journals) utilizing these lab facilities are:

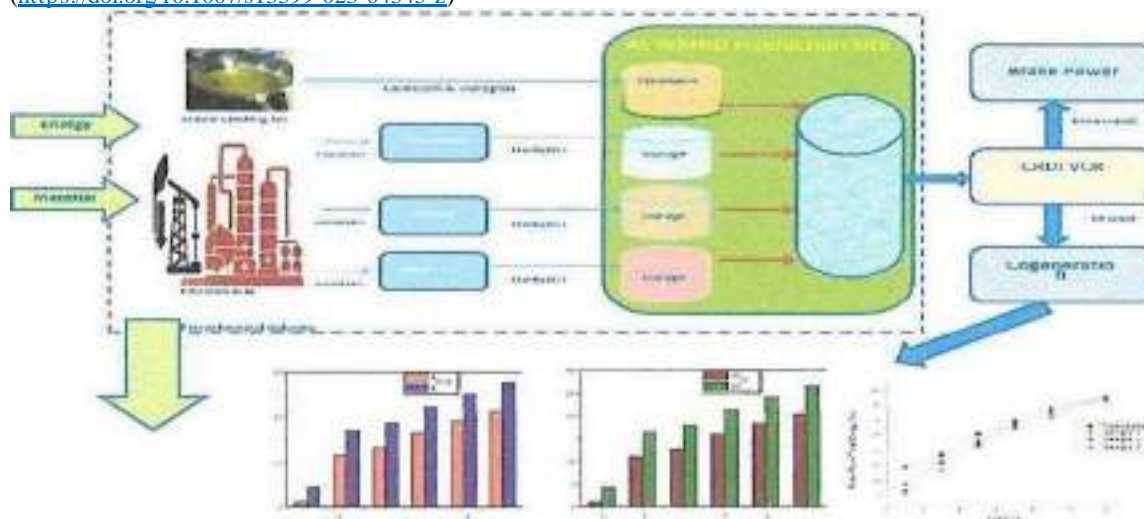
- P. Bora, J. Kakoti, P. Saikia, N.J. Talukdar, M.M. Phukan, D. Rakshit; Exergetic and environmental life cycle assessments for waste cooking oil microemulsion biofuel in compression ignition engine. Journal of Renewable and Sustainable Energy (All), 2023; 15 (2): 023101. <https://doi.org/10.1063/5.0143658>. IF: 2.847
- M. Haque, P. Bora, M.M. Phukan and T. Bórah, Bioenergy Generation and Value-addition from Processing Plant Generated Industrial Tea Waste: A Thermochemical Approach, Biomass Conversion and Biorefinery, 2023. <https://doi.org/10.1007/s13399-023-04345-z>. (Springer Nature) IF: 4.050
- SR Sangma, MM Phukan, V Chongloi, DK Verma, P Bora, S Kumari, PP Pankaj, Phytochemical profiling, antioxidant and antimicrobial investigations on Viburnum simonsii Hook. f. & Thoms, an unexplored ethnomedicinal plant of Meghalaya,

India. *Future Journal of Pharmaceutical Sciences* 9, 1 14 (2023). <https://doi.org/10.1186/s43094023-00567-0>

- U. Bordoloi, D. Das, D. Kashyap, D. Patwa, P. Bora, H.H. Muigai, P. Kalita, Synthesis and comparative analysis of biochar based form-stable phase change materials for thermal management of buildings, *Journal of Energy Storage* 55, 2022, 10580 (Elsevier) I. IF: 8.907
- R. Kataki, M.M. Phukan, D. Kalita, P.P. Pankaj, J. Saha, P.P. Das, P. Bora, N. Hazarika, S.R. Sangma and M. Kumar, Next Generational Biosurfactant and Their Practical Applications in Food Industries, in *Applications of Next Generation Biosurfactants in the Food Sector* in Inamuddin & C. Adetunji (eds.), Elsevier, Academic Press, 2022 (eBook ISBN: 9780128242841, Paperback ISBN: 9780128242834)
- M.M. Phukan, S.R. Sangma, D. Kalita, P. Bora, P.P. Das, K. Manoj, P.P. Pankaj, I. Jamir, DK. Verma, G. Bupesh, K.M. Sundaram, Alkaloids and terpenoids: Synthesis, classification, isolation and purification, reactions, and applications, in *Handbook of Biomolecules*, C. Verma, D.K. Verma (eds.), Elsevier, 2023, pp. 177-213 (ISBN 9780323916844). DOI: <https://doi.org/10.1016/B978-0-323-91684-4.00017-7>.
- R. Kataki, M.M. Phukan, D. Kalita, P.P. Pankaj, J. Saha, P.P. Das, P. Bora, N. Hazarika, S.R. Sangma and M. Kumar, Next Generational Biosurfactant and Their Practical Applications in Food Industries, in *Applications of Next Generation Biosurfactants in the Food Sector*, Inamuddin & C. Adetunji (eds.), Elsevier, Academic Press, 2023 (eBook ISBN: 9780128242841, Paperback ISBN: 9780128242834). pp. 361-389 DOI: <https://doi.org/10.1016/13978-0-12-824283-4.00029-4>
- M.M. Phukan, P.P. Pankaj, S.R. Sangma, R. Ahmed, K. Manoj, J. Saha, M.K. Ray, A.S. Kulhu, R. Kumar, K. Sagar, P.P. Das, P. Bora, Antimicrobial, anti-inflammatory, and wound-healing activities of medicinal plants; in *Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery*, C. Arora, DK. Verma, J. Aslam, P.K. Mahish (eds.), Walter de Gruyter GmbH, Berlin/Boston, 2023, (eBook ISBN: 9783110791891, Paperback ISBN: 9783110791761) pp. 185-204. DOI: <https://doi.org/10.1515/9783110791891-009>.
- N. Bhuyan, N.D. Choudhury, B.K. Dutta, et al. Assessment of kinetic parameters, mechanisms and thermodynamics of *Tithonia diversifolia* pyrolysis. *Biomass Conv. Bioref.* 13, 2703-2718 (2023). <https://doi.org/10.1007/s13399-021-01575-x>
- IH Mondal, M Baruah, ND Choudhury (2022) Tribological characterisation of bio lubricant from cucurbita pepo L. seed Oil, *Advances in Materials and Processing Technologies*, DOI:10.1080/2374068X.2022.2161158
- ND Choudhury, N Saha (2022). A Preliminary Investigation of Physicochemical, Rheological and Tribological Properties of Bio-lubricant from *Thevetia Peruviana* Oil, *Tribology in Industry*; Vol. 44, Iss. 4, 641-651

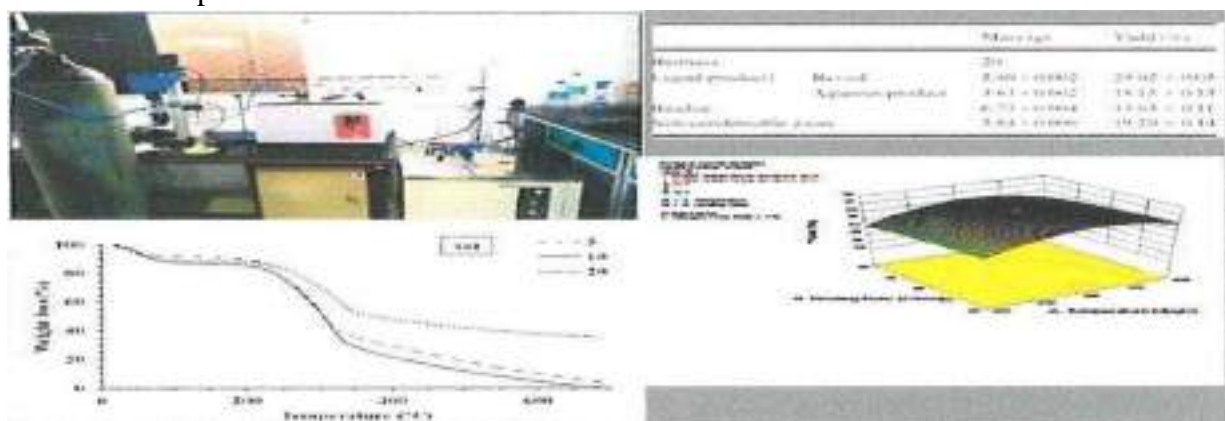


Bioenergy Generation and Value-Added Product Development from Industry Generated Tea Waste
<https://doi.org/10.1007/s13399-023-04345-z>



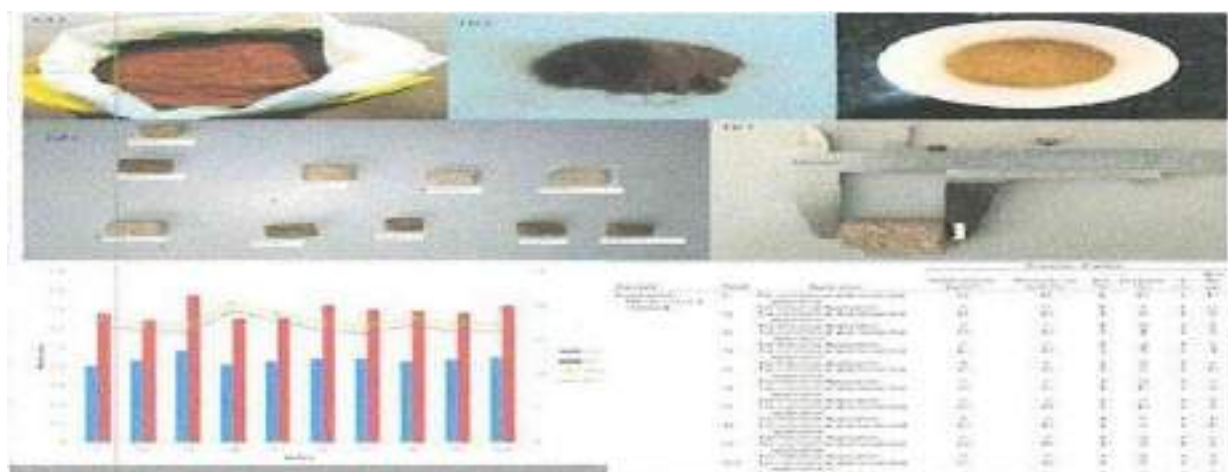
Exergetic and environmental life cycle assessments for waste cooking oil microemulsion biofuel in compression ignition engine. <https://doi.org/10.1063/5.0143658>

Characterization and Evaluation of Energy Properties of Pellets produced from Coir pith, Saw dust and Ipomoea carnea and their blends



Characterization and Evaluation of Energy Properties of Pellets produced from Coir pith, Saw dust and Ipomoea carnea and their blends

(<https://doi.org/10.1080/15567036.2020.1871446>)



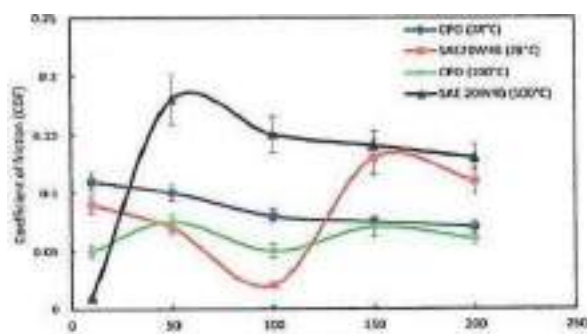
Assessment of kinetic parameters, mechanisms and thermodynamics of *Tithonia diversifolia* pyrolysis (<https://doi.org/10.1007/s13399-021-01575-x>)

Lab-IV: Tribology Research Laboratory

The major types of equipment available in the Tribology Research Laboratory are: Four Ball Tester, Pin Ball on Disc Tribometer, Journal Bearing.

Some of the major research outputs during 2022-2023 (publications in reputed journals) utilizing these lab facilities are:

1. **IH Mondal, M Baruah, ND Choudhury** (2022) Tribological characterisation of bio lubricant from cucurbita pepo L. seed oil, *Advances in Materials and Processing Technologies*, DOI: 10.1080/2374068X.2022.2161158
2. **ND Choudhury, N Saha** (2022). A Preliminary Investigation of Physicochemical, Rheological and Tribological Properties of Bio-lubricant from *Thevetia Peruviana* Oil, *Tribology in Industry*; Vol. 44, Iss. 4, 641-651.
3. **M Baruah, K Kalita**, Effect of longitudinal and lateral holes on the performance of an elliptical pin fin heat exchanger, *Trans Indian Natl. Acad. Eng.* 8, 235-244 (2023).



Tribological characterisation of bio lubricant from cucurbita pepo L. seed oil, *Advances in Materials and Processing Technologies*, DOI: 10.1080/2374068X.2022.2161158

Lab-V: Plasma Pyrolysis Laboratory (PPL)-On-going R&D activities in the lab are:

1. Examined the disposal efficiency of the plasma pyrolysis plant for a different kind of solid waste.
2. Study the utilization of the plasma pyrolysis residue

Available Facilities: Plasma pyrolysis is one of the efficient technologies for the safe disposal of municipal solid waste in an eco-friendly manner. In this technology high temperature is

generated in a chamber in oxygen starved condition. Organic waste disintegrates into hydrogen, CO and lower hydrocarbon gases because of oxygen starved condition at high temperature. These high calorific gases are cleaned by gas cleaning system and then, it can be utilized for useful applications. A Plasma pyrolysis plant With a disposable capacity of 10 kg/hr is designed and installed at ASTU premises for the disposal of solid waste under Centre for Advance Research in Science and Technology (CARST). The image of the plant is given below;



Lab-VI: IC Engine Research Laboratory



Hybrid Solar PV Power Plant



A 15 kWp Hybrid PV Solar Plant has been installed recently at ASTU under AICTE GAINER Project. Summer Internship programmes are already been offered to the students on

Installation, Operation and Maintenance of Hybrid Solar Photovoltaic Power Plant. M.Tech (Energy Engineering) students are also getting opportunities for hands-on training on Solar PV Plant.

Instrumentation facilities at ASTU with price list

Sl. No.	Name of equipment	For sample fee For Affiliated Institute/colleges under ASTU and other Government and private colleges of Assam		For sample fee For National Institute/ Government Laboratory/Research Institute of Sikkim and outside Sikkim Private organization	
Energy Research Laboratory					
1	Thermogravimetric analyzer (Temperature range: 25- 1100°C)	Rs 800 For low heating rate i.e. 10°C/min upto 500°C)	Rs 1500 (For all heating rate upto temperature 1100°C)	Rs 1500 (For low heating rate i.e. 10°C/min upto 100°C)	Rs 2000 (For all heating rate upto temperature 1100°C)
2	Differential scanning calorimeter (Temperature range: 25- 750°C)	Rs 300		Rs 500	
3	Rheometer	Rs 500		Rs 1200	
4	Rheotometer	Rs 150		Rs 450	
5	Clamp and gear pull apparatus	Rs 350		Rs 600	
6	Clamp and gear pull Fire and fluid pull apparatus	Rs 350		Rs 500	
7	Ultrasonicator	Rs 550		Rs 800	
8	Hot air oven	Rs 450 (for initial 2 hrs and Rs 100 for additional per hour)		Rs 500 (for initial 2 hrs and Rs 100 for additional per hour)	
9	Volatile matter furnace	Rs 250		Rs 500	
10	Digital viscometer	Rs 300		Rs 600	
11	Oil extraction unit	Rs 250 (* Applicant has to bring the solvent)		Rs 500 (* Applicant has to bring the solvent)	
12	Bomb calorimeter	Rs 300		Rs 800	
13	Centrifuge	Rs 150		Rs 350	
IC Engine laboratory					
14	IC engine with flue gas analyzer	Rs 800 for each engine run (After office hour extra 500 per hour) *** Fuel will not be provided by ASTU.		Rs 1600 for each engine run (After office hour extra 500 per hour) *** Fuel will not be provided by ASTU.	
Tribology Research Laboratory					
15	Fourball tester	Rs 800(For wear preventive test) Rs1000(for extensive pressure test) Rs1500 (for rolling fatigue test)		Rs 1000(For wear preventive test) Rs1500(for extensive pressure test) Rs2500 (for rolling fatigue test)	
16	Journal Bearing tester	Rs1000 ** Applicant has to bring the oil for testing		Rs 2500 ** Applicant has to bring the oil for testing	
17	Pin/ball on disc	Rs 500 (for test in room temperature) Rs 800 (for test upto 450°C) Rs 1200 (for test above 450°C to maximum 800°C) Rs 1800 (for test in vacuum condition) **Applicant has to bring Pin/ ball and disc for the tests		Rs 1000(for test in room temperature) Rs 1200(for test upto 450°C) Rs 2000 (for test above 450°C to maximum 800°C) Rs 3000 (for test in vacuum condition) **Applicant has to bring Pin/ ball and disc for the tests	
Multidisciplinary Experimental and Testing Accessible Laboratories (METAL)					
18	Contact angle measurement	Rs 400		Rs 600	
19	Water analyzer kit	Rs 200		Rs 400	
20	pH meter	Rs 150		Rs 300	
21	Coating at iPVD reactor (hard to soft coating)	Rs 1500		Rs 2500	

	** The target material should be arranged by the applicant. Size Dia- 10cm Thickness- 3mm		
22	Atomic absorption spectroscopy	Rs 750	Rs 1500
23	Optical emission spectrometer	Rs 1000	Rs 1500
24	Sieve analyzer	Rs 150	Rs 300
MATERIAL SCIENCE LAB			
25	Muffle furnace	Rs 100 per hour	Rs 200 per hour
26	Oven	Rs 100 per hour	Rs 200 per hour
27	Cold/hot mounting	Rs 50 per sample	Rs 100 per sample
28	Vacuum die casting	Rs 1000 per casting	Rs 2000 per casting
29	Micro-hardness	Rs 100 per sample	Rs 200 per sample
30	Optical microscopy	Rs 100 per sample	Rs 200 per sample
31	Sample polishing	Rs 200 per sample	Rs 400 per sample
32	Sample sectioning	Rs 50 per sample	Rs 100 per sample

Library

The year April 2023 – March 2024 has been a period of growth and innovation for our library as we continue to strive towards enhancing our services and resources to meet the evolving needs of our users. Through diligent efforts and strategic initiatives, we have made significant progress in expanding our collections, improving access to information, and fostering a conducive environment for learning and research.

Library Profile: The ASTU Central Library, located on the ground floor of the academic building, serves as a hub for academic resources and a good environment for studying. Its location ensures easy accessibility for students and faculty alike. The library offers a welcoming ambiance conducive to focused study, providing a tranquil setting for academic pursuits. Overall, the ASTU Central Library stands as a vital resource centre supporting the academic endeavours of the university community.

Hours of Operation 9.30 a.m. to 5.00 p.m. All working days

Closed 2nd and 4th Saturday and Sunday.

Collection.

Books: We have expanded our book collection to **1664 titles**, encompassing a diverse range of subjects and genres to cater to the varied interests and academic pursuits of our users.

Dissertations: Our repository now houses **456** dissertations, providing valuable research resources for scholars and students alike.

Theses: We are pleased to announce the acquisition of **14** theses, further enriching our scholarly resources and supporting academic endeavours across disciplines.

Newspaper Collection: Our collection now includes 5 newspapers, offering comprehensive coverage of local, national, and international news to keep our users informed and engaged with current affairs.

The library also offers access to Employment news.

Journals/Periodicals /Magazine –Journals in the collection encompass Yojana, Current Science, University News, Manthan and Sikh Review.

Periodicals /Magazine such as Samachar, Sainik Samachar, Right to Information Report, Connect and Education Law Cases also contribute to the wealth of resources.

Services offered by the Library.

ETD repository: Currently, ASTU has submitted five Ph.D. theses to Shodhaganga, showcasing our commitment to scholarly research and academic excellence.

Plagiarism Checking: In our commitment to academic integrity, we have implemented Plagiarism checking using **Drillbit** software, empowering users to uphold the highest standards of academic honesty and originality.

Previously, the university utilized Ouriginal by Turnitin for providing plagiarism reports to its users.

Circulation: Throughout the year, the university library typically has approximately 45 books checked out by users.

Number of visitors: The university library recorded approximately 311 visits throughout the year.

Library Management Software: The ASTU Central Library utilizes KOHA software as its library management system, with a total of **504** books catalogued in the system.

ERP (Enterprise Resource Planning) Library Module: ASTU's central library has an efficient Enterprise Resource Planning (ERP) module. Presently, it has recorded entries for **359** books.

Books Procured during the year.

S.no	Vendor	Quantity
1	Ved Rishi	271
2	ABVP	10
3	Online Platform	4
4	Sahitya Akademi	6
5	NIROGDHAM	65
6	Online Platform	38
7	Online Platform	6
8	Sahitya Akademi	30
9	Dr.Gopal Energy Foundation	2
10	RTI Institue of India	12
11	Online Platform	43
12	Online Platform	36

Total -523

Furniture Attained during the year

S.No	Furniture	Quantity
1	Steel Almirah	1
2	Computer Table	2
3	Printer	1
4	Glass Showcasing Almirah	2

Total - 6**Phd Theses attained during the year.**

S.No	Name	Title of Theses
1	Ranjan Kalita	Mathematical Modelling of Diabetes Mellitus Under the Influence of Externally Ingested Glucose.
2	Papari Nayak	A Study on organizational citizenship behavior and job satisfaction of teaching staff of higher educational institutions in lower Assam.
3	Hirak Ranjan Das	Numerical and Experimental Investigations of Macro flow dynamics due to wind over earth fixed structures.
4	Banajit Sarmah	Investigations of Characteristics Properties of Solitary Waves in Dusty Plasma by No Perturbative Approach
5	Nandini Borah	A study on employee engagement in the service sector : A critical analysis of Antecedent and Outcome Variables.
6	Aruna Dev Roy	Green Marketing: A study on Consumer perception in Kamrup District.
7	Antara Mahanta Baruah	Prediction of Electrical Consumer profile using smart meter data special reference to the smart meter project of Assam.
8	Bapan Kalita	A stochastic approach to Mathematical modeling of Japanese Encephalitis and Impact of Some Control Measures.
9	Sanjay Karmakar	Financial Inclusion in Boroland territorial region of Assam : An Empirical Study on its status and Constrains
10	Bitopi Gogoi	Innovative work behavior : A critical study of select industries in Assam
11	Ripunjyot Bordoloi	Formulation In-Vitro/ In- Vivo Evaluation and Optimization of bio-adhesive microsphere of gliclazide by cross linking of starch isolated from banana species (Musa Balbisiana) for enhanced bioavailability
12	Debasis Dev Misra	Evolutionary Approach for Optimized routing in heterogeneous ultra dense wireless networks
13	Pradyut Kumar Borah	Knowledge Management practices and systems in private hospitals of Northeast – A case study
14	Rupam Deka	Investigations of Macro flow dynamic effect of synoptic wind on internal and external.

PHD theses uploaded during the year in Shodhganga.

S.no	Name	Title
1	Aruna Dev Roy	Green marketing a study on consumer perception in kamrup district

S.no	Name	Title
2	Papari Nayak	A study of organizational citizenship behavior and job satisfaction of teaching staff of higher educational institutions in lower Assam
3	Banajit Sharma	Investigations of Characteristics Properties of Solitary Waves in Dusty Plasma by No Perturbative Approach
4	Rupam Deka	Investigations of Macro flow dynamic effect of synoptic wind on internal and external
5	Pradyut Kumar Borah	Knowledge Management practices and systems in private hospitals of Northeast – A case study
6	Bapan Kalita	A stochastic approach to Mathematical modeling of Japanese Encephalitis and Impact of Some Control Measures.

Activities performed by Library Staff.

1. Participated in Regional Training Program on Plagiarism Detection Software (PDS)- ShodhSuddhi at Gauhati University.
2. Represented ASTU in 26th International Symposium ETD 2023 Electronic Theses and Dissertation held in INFLIBNET Center, Gandhinagar, Gujrat
3. Represented ASTU in ICAL 2023 International Conference on Academic Libraries held at Delhi University.



Pic 1: Group Photo of the 7th technical Session of 26th International Symposium ETD 2023 Electronic Theses and Dissertation held in INFLIBNET Center, Gandhinagar, Gujrat



Pic 2: Distribution of memento and certificates at 26th International Symposium ETD 2023 Electronic Theses and Dissertation held in INFLIBNET Center, Gandhinagar, Gujrat



Pic 3: Certificate of Participation in Regional Training Programme on Plagiarism Detection Software (PDS)- ShodhSuddhi at Gauhati University.



Pic 4: Distribution of Memento at ICAL 2023 International Conference on Academic Libraries at Delhi University.



Pic 5: Group Photo of the Technical Session at ICAL 2023 International Conference on Academic Libraries at Delhi University.

After effectively utilizing the first instalment, Assam Science and Technology University secures the second and final instalment for the project “Strengthening the Hindi Section in the Library of Assam Science and Technology University, Jalukbari, Guwahati, Assam”. As part of this initiative, the Central Library at Assam Science and Technology University has significantly expanded its collection in the Hindi section. A variety of noteworthy books by acclaimed authors have been procured using these funds, sourced from reputable vendors such as Sahitya Akademi and Ved Rishi, as well as from various online platforms.

Books Procured during the year under the fund.

Sl.no.	Vendor	Quantity
1	Ved Rishi	271
2	ABVP	10
3	Online Platform	4
4	Sahitya Akademi	6
5	NIROGDHAM	65
6	Online Platform	38
7	Online Platform	6
8	Sahitya akademi	30

All India Survey of Higher Education (AISHE)

All India Survey on Higher Education (AISHE) was established by the Ministry of Human Resource Development for conducting an annual web-based survey, thereby portraying the status of higher education in the country. The survey is conducted for all educational institutions in India on many categories like teachers, student enrolment, programmes, examination results, education finance, and infrastructure. This survey is used to make informed policy decisions and research for the development of education sector.

Objectives: There are two objectives for this survey are to

- Identify all the institutions of higher learning in the country
- Collect data from all the higher education institutions on various aspects of higher education.

Data Collection: The collection of data is done under the following categories:

- Institution's Basic Details
- Teacher's Details
- Details of Non-Teaching Staff
- Programme conducted under various Faculties/Schools & Departments/Centres
- Students enrolled in these programmes
- Examination result of the terminal year of each Programme
- Financial Information such as Receipt and Expenditure under various heads
- Availability of Infrastructure
- Scholarships, Loans & Accreditation

Assam Science and Technology University AISHE code is U-0673

Nodal Officer: Dr. Monoj Baruah

College/ Institutions registered under ASTU- AISHE:

There are 32 institutions under the affiliation of Assam Science and Technology University (ASTU) to date. Out of these 16 institutions have registered/ shifted to the Assam Science and Technology University. The rest of the institutions are expected to shift their AISHE registration to ASTU soon.

Sl. No	District	College/ Institutions	Code
1	Karimganj	Barak Valley Engineering College	C-59806
2	Kamrup Metro	Brahmaputra College	C-55858
3	Kamrup Metro	Daffodil College of Horticulture	C-64585
4	Dhemaji	Dhemaji Engineering College	C-64586
5	Kamrup Metro	Dona International Institute of Assam	C-66308
6	Kamrup	Girijananda Chowdhury Institute of Management & Technology, Azara	C-17309
7	Kamrup Metro	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	C-54626
8	Sonitpur	Girijananda Chowdhury Institute of Pharmaceutical Science, Tezpur	C-63906
9	Golaghat	Golaghat Engineering College, Golaghat	C-63924
10	Kamrup Metro	Guwahati College of Architecture, Azara	C-57435
11	Kamrup Metro	National Institute of Electronics and Information Technology (NIEIT), Guwahati	C-66301
12	Kamrup	NETES Institute of Pharmaceutical Science (NIPS), Mirza	C-57983
13	Sonitpur	North Eastern Regional Institute of Water and Land Management (NERIWALM), Tezpur	C-64696

Sl. No	District	College/ Institutions	Code
14	Kamrup Metro	Pratiksha Institute of Pharmaceutical Sciences (PIPS),Guwahati	C-60136
15	Kamrup Metro	Rahman Institute of Pharmaceutical Sciences and Research (RIPS), Tepesia	C-61817
16	Kamrup Metro	Royal School of Engineering and Technology (RSET), Guwahati	C-54628

PhD Programme

PhD Research Centres

Sl. No.	Name of the Centres	PhD Disciplines
1	Assam Engineering College:	Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, Computer Science and Engineering, Electronics and Communications Engineering and Chemistry
2	Assam Institute of Management	Business Administration
3	NIPS, MIRZA	Pharmacy
4	Jorhat Engineering College, Jorhat	Mechanical Engineering, Computer Science and Engineering, Instrumentation Engineering, Civil Engineering, Electrical Engineering
5	Jorhat Institute of Science and Technology, Jorhat	Physics, Chemistry. Mathematics
6	School of Engineering	Energy Engineering, Mechanical Engineering, Chemical Engineering, Computer Science and Engineering,
7	NERIWALM, Tezpur	Water Resource Management

PhD Scholar Enrolment Details

Sl. No.	PhD Centre	Year/session	No. of scholar
1.	Assam Engineering College	2022 (odd)	38
2.	Assam Institute of Management	2022 (odd)	10

3.	NIPS, MIRZA	2022 (odd)	10
4.	School of Engineering	2022 (odd)	2
5.	Jorhat Engineering College	2022 (odd)	7
6.	Jorhat Institute of Science and Technology	2022 (odd)	10
7.	NERIWALM, Tezpur	2022 (odd)	1

Award of PhD Degree

A total of fourteen (14) scholars are awarded Doctorate of Philosophy (PhD) degree details of which are furnished below:

Sl No.	Name & Registration No	Faculty	Title of the thesis
1	Aruna Dev Rroy Reg No: 208215416	Management	Green Marketing: A study on consumer perception in Kamrup district.
2	Ms. Bitopi Gogoi Reg No: 291515417	Management	Innovative Work Behaviour: A Critical Study of Select Industries in Assam
3	Mr. Pradyut Kumar Borah Reg No: 292415417	Management	Knowledge Management Practices and Systems in Private Hospitals of Northeast-A Case Study
4	Mr. Sanjay Karmakar Reg No: 292915417	Management	Financial Inclusion in Bodoland territorial region of Assam: An empirical study on its status and constraints
5	Mr. Debashis Dev Misra Reg No: 209115416	Engineering	Evolutionary Approach for Optimized Routing in Heterogeneous Ultra-Dense Wireless Networks
6	Mr. Ripunjy Bordoloi Reg No: 292715417	Pharmacy	Formulation, <i>In-Vitro/In-Vivo</i> Evaluation and Optimization of Bio-Adhesive Microsphere of Gliclazide by Cross-Linking of Starch Isolated from Banana Species (<i>Musa Balbisiana</i>) For Enhanced Bioavailability
7	Papari Nayak Reg No: 210015416	Management	A Study on Organizational Citizenship Behavior and Job Satisfaction of Teaching Staff of Higher Educational Institutions in Lower Assam
8	Antara Mahanta Barua Reg No: 208115416	Engineering	Prediction of Electrical Consumer Profile Using Smart Meter Data-Special Reference to the Smart Meter Pilot Project of Assam
9	Ranjan Kalita Reg No: 210415416	Mathematics	Mathematical Modelling of Diabetes Mellitus Under the Influence of Externally Ingested Glucose

Sl No.	Name & Registration No	Faculty	Title of the thesis
10	Hirak Ranjan Das Reg No: 292115417	Engineering	Numerical and Experimental Investigations of Macro Flow Dynamics Due to Wind over Earth Fixed Structures
11	Bapan Kalita Reg No: 291315417	Mathematics	A Stochastic approach to Mathematical Modeling of Japanese Encephalitis and Impact of some Control Measures
12	Banajit Sarmah Reg No: 291215417	Mathematics	Investigations of Characteristic Properties of Solitary Waves in Dusty Plasma by Nonperturbative Approach
13	Nandini Borah Reg No: 292315417	Management	A Study on Employee Engagement in the Service Sector: A Critical Analysis of Antecedent and Outcome Variables

Year wise passed out scholar's details

YEAR	DISCIPLINE	NO. OF SCHOLAR AWARDED DEGREE
2019	Mathematics	1
2020	Management, Energy Engineering, Mathematics	4
2021	Management, Electrical Engineering, Mathematics	3
2022	Computer Science and Engineering, Management, Pharmacy,	5
2023	Energy Engineering	1

Research Fellowship

DST INSPIRE Fellowship under INSPIRE Programme: A total of two (02) scholars are availing DST INSPIRE Fellowship details of which if furnished below:

Inspire Code	Name, Designation	Discipline	Year of scholarship availed
IF190138	Mr. Suman Kumar, JRF	Pharmacy	12/09/2019
IF190482	Mr. Chinmoy Bhuyan, jrf	Pharmacy	2/3/2021

AICTE Doctoral Fellowship (ADF) programme under ASTU: The departments offering Ph. D (under the ADF scheme) are Energy engineering, Chemical engineering, Mechanical engineering and Computer engineering at the school of engineering ASTU. Following are the details of scholars enrolled under the scheme:

Session	Department wise no. of scholars	Total No. of scholars
2020-21	Mechanical Engineering (3) Energy Engineering (2)	5 (One scholar withdrew)
2021-22	Mechanical Engineering (1)	1

Recognition of PhD Research Guides/Supervisor

Sl No	Name & address	Department /Specialization	Status
1.	Dr. Pabitra Sarmah, Silapathar Science College	Zoology	Guide
2.	Dr. Jitu Gogoi, Silapathar Science College	Botany	Guide
3.	Dr. Ranjit Saikia, Silapathar Science College	Botany	Co-guide
4.	Dr. Kamalesh Kumar Pandit, Jorhat Institute of Science and Technology	Mathematics	Guide
5.	Dr. Dhruvajyoti Baruah, Jorhat Engineering College	Computer Science and Engineering	Guide
6.	Dr. Karabi Goswami, Assam Institute of Management	Finance/ Marketing	Guide
7.	Dr. Sonali Biswas, Jorhat Engineering College	Instrumentation Engineering	Guide
8.	Dr. M. Mathiyazhagan, Silapathar Science College	Botany	Guide
9.	Dr. Manjuri Hazarika, Assam Engineering College	Mechanical Engineering	Guide
10.	Dr. Suparna Sengupta Pal, Tea Research association, Kolkata	Agricultural chemicals	Guide
11.	Dr. Bappaditya Kanrat, Tea Research association, Kolkata	Agricultural chemicals	Guide
12.	Dr. Shobhit Kumar Singh, Toklai Tea Research Institute, Jorhat	Agriculture	Guide
13.	Dr. Mridul Sarmah, Toklai Tea Research Institute, Jorhat	Entomology	Guide
14.	Dr. Harisadhan Malakar, Toklai Tea Research Institute, Jorhat	Agricultural Chemistry & Soil Science	Guide
15.	Dr. Jintu Dutta, Toklai Tea Research Association, Jorhat	Soil Chemistry and Fertility	Guide
16.	Dr. Raktim Paul, Toklai Tea Research Institute, Jorhat	Analytical Services	Guide
17.	Dr. Ibrahim Kaleel, Toklai Tea Research Institute, Jorhat	Water Technology	Guide
18.	Dr. Santanu Sabhapondit, Toklai Tea Research Institute, Jorhat	Biochemistry	Guide
19.	Dr. Piw Das, Toklai Tea Research Institute, Jorhat	Analytical services	Guide
20.	Dr. Tupu Barman, Toklai Tea Research Institute, Jorhat	Analytical Services	Guide
21.	Dr. Sangeeta Borchetia, Toklai Tea Research Institute, Jorhat	Biotechnology	Guide

Sl No	Name & address	Department /Specialization	Status
22.	Dr. Gautam Handique, Toklai Tea Research Institute, Jorhat	Entomology	Guide
23.	Dr. Pritam Chowdhury, Toklai Tea Research Institute, Jorhat	Biotechnology	Guide
24.	Dr. Podma Pollov Sarmah, Toklai Tea Research Institute, Jorhat	Biochemistry	Guide
25.	Dr. Somnath Roy, Toklai Tea Research Institute, Jorhat	Entomology	Guide
26.	Dr. Abhay K. Pandey, Tea Research Association, Nagrakata, West Bengal	Mycology and Microbiology	Guide
27.	Dr. Biplab Adhikary, Tea Research Association, Nagrakata, West Bengal	Biochemistry	Guide
28.	Dr. Prabhat Pramanik, Tea Research Association, Nagrakata, West Bengal	Soil Science	Guide
29.	Dr. Bhabesh Deka, Toklai Tea Research Institute, Jorhat	Entomology	Guide
30.	Dr. Pradeep Kumar Patel, Toklai Tea Research Institute, Jorhat	Plant physiology and breeding	Guide
31.	Dr. Mridusmita Sharma, Assam Engineering College	Electrical Engineering	Co-Guide
32.	Dr. Manash Bhuyan, Assam Engineering College	Mechanical Engineering	Co-Guide
33.	Dr. Tapan Das, Jorhat Institute of Science and Technology	Power Electronics and Instrumentation Engineering	Guide
34.	Dr. Homeswar Kalita, Gauhati Commerce College	Commerce	Guide
35.	Dr. Rafique Uddin Ahmed, Gauhati Commerce College	Economics	Guide
36.	Dr. Jonali Sarma, Gauhati Commerce College	Statistics/ Management	Guide
37.	Dr. Kavita Gaggar, Gauhati Commerce College	Accountancy/ Commerce	Guide
38.	Dr. Ruchi Todi, Gauhati Commerce College	Commerce	Guide
39.	Dr. Sumee Dastidar, Gauhati Commerce College	Commerce	Guide
40.	Dr. Dhriti Das, Gauhati Commerce College	Commerce/Management	Guide
41.	Dr. Devarshi Kashyap, AEC	Mechanical Engineering	Co-Guide
42.	Dr. Ajanto Kumar Hazarika, Toklai Tea Research Institute, Jorhat	Physics and Applied spectroscopy	Co-Guide
43.	Dr. Nilutpal Sharma Bora, NIPS	Pharmaceutical Science	Guide
44.	Dr. Rupamjyoti Nath, Bineswar Brahma engineering College	Humanities	Guide

Details of URC Meeting

The following University Research Committee meeting were held during the period 2022-23.

Sl No	Meeting	Meeting held on
1	15 th meeting of URC	27/01/2023
2	16 th meeting of URC	23/11/2023

Academic Council Meeting

The following University Research Committee meeting were held during the period 2022-23

Sl No	Meeting	Meeting held on
1	28 th meeting of Academic Council	31/01/2023
2	29 th meeting of Academic Council	07/12/2023

Details of Scholarship (NSP Portal)

Year	Scholarship applications verified and forwarded for approval Name of Scholarship Scheme	Fresh applications (no.)	Renewal applications (no.)	Total applications verified and forwarded for approval
2022-23	Ishan Uday Special Scholarship	-	23	53
	NEC Merit Scholarship	-	7	
	Post matric scholarship for SC	-	6	
	Merit cum means scholarship	-	1	
	AICTE- Pragati Scholarship	-	16	
	PG scholarship for SC	-	-	

Department of Energy Engineering, ASTU

Department of Energy Engineering is the first on-campus department of ASTU started in 2016 with the objective to develop technically competent human resources and environmentally benign sustainable technologies in the energy sector. This department focuses on the establishment of a research platform to carry forward R&D activities in distinguished fields of renewable energy. The establishment of the Energy Engineering department in the university is a part of the initiative to develop a roadmap for research to solve energy and environment-related relevant engineering and technological challenges. This is in accordance with IMPRINT INDIA's (Government of India's scheme launched on 5th November 2015) aim of directing research in the premier institutions into areas of societal relevance. The department has been offering M.Tech (Energy Engineering) & PhD (Energy Engineering) since the academic session 2020-21.

Major Thrust Areas: Biofuels & Bioenergy, Biomass Conversion Technologies, Advanced Biofuel Technologies, Fuel Technology, Solar Photovoltaic Conversion, Solar Thermal Conversion, Other Renewable Energy Technologies, Energy Conservation and Management, Energy Modeling& Simulation Study, Waste to Energy Conversion, Environment and climate change study etc.

Currently Available Research Facilities: IC Engine Set up, Bomb Calorimeter, Flash & Fire Point Apparatus, Cloud & Pour Point Analyzer, Soxhlet Extraction Set up, Rotary Vacuum Evaporator, Solar Sunshine Duration Recorder, Pyranometer, Single Phase Power Analyzer, Pyrolysis set up, Solar Water Heaters (FPC, EPC), Biomass Cooking stoves, TGA, DSC, Rheometer, Viscometer

ASTU has established a School of Engineering (SoE) at its own campus at Jalukbari, Guwahati

AICTE Approved Academic Programmes at Dept of Energy Engg, ASTU: The following academic programmes are presently undergoing at the Department of Energy Engineering, ASTU, Jalukbari, Guwahati. These programmes are approved by the All India Council for Technical Education (AICTE), New Delhi:

Programme Name	Approved Intake	Particulars
i. M.Tech (Energy Engineering)	18 (eighteen)	M.Tech (Energy Engineering) course in the Department of Energy Engineering of ASTU was started in the academic session 2016-17. The course curriculum is developed based on the latest guidelines of AICTE Model curriculum for Postgraduate Degree in Engineering and Technology.
ii. Ph.D (Energy Engineering),	05 (five)	ASTU receives approval from AICTE to conduct Ph.D programmes in Energy Engineering, Chemical Engineering, Mechanical Engineering and Computer Engineering disciplines under 'AICTE Doctoral Fellowship (ADF) Scheme' since the academic session 2020-21. ASTU is among the 41 (forty-one) technical institutions of the country and the only university in Assam besides Tezpur University which is selected by AICTE to conduct the doctoral programme under ADF scheme.

Student Enrolment and Passed out at M.Tech (Energy Engineering):

Year	Number of Students Enrolled	Number of Students Passed Out
2023	06	13
2022*	09	12

M. Tech Major Projects Completed in Last Two (2) Years:

Sl No.	Student Name	Project Title	Supervisor
2023			
1	Zeenat Arman	Thermal Management In Buildings With Latent Heat Storage Bio-Composites From Tea Waste And Organic Phase Change Material	Dr. Plaban Bora
2	Pinak Jyoti Deka	Integrated Thermoelectric Generator-Organic Rankine Cycle Power Generation System: An Investigation on Exhaust Heat Recovery Potential from Internal Combustion Engine	Dr. Plaban Bora
3	Aftab Hussain	Fabrication and Performance Assessment of Solar Aided Biomass Fired Steam Generating System for Post Harvest Turmeric Rhizome Processing	Dr. Plaban Bora
4	Saddam Hussain	Tribological Study of Neem Oil with Functionalized MWCNT Additives as Bio-Lubricant	Dr. Nabajit Dev Choudhury
5	Shristi Roy	A Study on the Application of Bio-Chars of Bagasse and Coconut Coir as a Solar Energy Absorption in Dye-Sensitized Solar Cells	Dr. Nabajit Dev Choudhury
6	Monowar Hussain	Modification of A Box Type Solar Cooker and Its Performance Analysis	Dr. Nabajit Dev Choudhury
7	Sunit Bhusan Sarma	Effect of Plasma Nitriding on the Surface Hardness Microstructure and Corrosion Resistance of 6061 Aluminium Alloy with 0.04% Sn	Dr. MonojBaruah
8	Suraj Konwar	Performance Study of a Solar PV Panel with Reflectors, Tracking and A Monitoring System	Dr. MonojBaruah
9	Sanjib Barman	Performance Study of a Solar Water Heater Using Reflectors	Dr. MonojBaruah
10	Riya Sharma	Simulation and Experimental Study on Silicon Thin Film D3evelopment Through Ionized	Dr. Bharat Kakati

Sl No.	Student Name	Project Title	Supervisor
		Physical Vapor Deposition (iPVD) Technique	
11	Pradyut nandan Sarma	Disposal of Municipal Solid Waste by Plasma Pyrolysis Process: Exploring Applications of It's By-Products	Dr. Bharat Kakati
12	Anurag Anabodya Neog	Effect of Cole Plasma Treatment on Graphene Oxide Films	Dr. Bharat Kakati
13	Jahnawi Sarma	Surface Modification of Polymeric Membranes Through Cola Atmospheric Pressure Plasma	Dr. Bharat Kakati

2022

Internship Program: Students' Internship at Dept of Energy Engineering, ASTU

Sl. No.	Name of Internship student	Name of Institute	Topic
2	Ms. Trishna Kalita	North-Eastern Hill University, Shillong	Summer Internship programmes on Installation, Operation and Maintenance of Hybrid Solar Photovoltaic Power Plant
3	Ms. Brishti Pegu	North-Eastern Hill University, Shillong	
4	Mr. Rishi Nandan Puzari	North-Eastern Hill University, Shillong	
5	Mr. Ayash Ahshan	North-Eastern Hill University, Shillong	
6	Mr. Ujjal Kakati	North-Eastern Hill University, Shillong	

Publications (since 2022):

(a) Peer-reviewed Journals:

1. **P. Bora, J. Kakoti**, P. Saikia, **N.J. Talukdar**, M.M. Phukan, D. Rakshit; Exergetic and environmental life cycle assessments for waste cooking oil microemulsion biofuel in compression ignition engine. Journal of Renewable and Sustainable Energy (AIP), 2023; 15 (2): 023101. <https://doi.org/10.1063/5.0143658>. IF: 2.847
2. **M. Haque, P. Bora**, M.M. Phukan and T. Borah, Bioenergy Generation and Value-addition from Processing Plant Generated Industrial Tea Waste: A Thermochemical Approach, Biomass Conversion and Biorefinery, 2023. <https://doi.org/10.1007/s13399-023-04345-z>. (Springer Nature) IF: 4.050
3. SR Sangma, MM Phukan, V Chongloi, DK Verma, **P Bora**, S Kumari, PP Pankaj, Phytochemical profiling, antioxidant and antimicrobial investigations on *Viburnum*

- simonsii* Hook. f. & Thoms, an unexplored ethnomedicinal plant of Meghalaya, India. *Future Journal of Pharmaceutical Sciences* **9**, 114 (2023). <https://doi.org/10.1186/s43094-023-00567-0>
4. M.M. Phukan, S.R. Sangma, D. Kalita, **P. Bora**, P.P. Das, K. Manoj, P.P. Pankaj, I. Jamir, D.K. Verma, G. Bupesh, K.M. Sundaram, Alkaloids and terpenoids: Synthesis, classification, isolation and purification, reactions, and applications, in *Handbook of Biomolecules*, C. Verma, D.K. Verma (eds.), Elsevier, **2023**, pp. 177-213 (ISBN 9780323916844). DOI: <https://doi.org/10.1016/B978-0-323-91684-4.00017-7>.
 5. R. Kataki, M.M. Phukan, D. Kalita, P.P. Pankaj, J. Saha, P.P. Das, **P. Bora**, N. Hazarika, S.R. Sangma and M. Kumar, Next Generational Biosurfactant and Their Practical Applications in Food Industries, in *Applications of Next Generation Biosurfactants in the Food Sector*, Inamuddin & C. Adetunji (eds.), Elsevier, Academic Press, **2023** (eBook ISBN: 9780128242841, Paperback ISBN: 9780128242834). pp. 361-389 DOI: <https://doi.org/10.1016/B978-0-12-824283-4.00020-4>
 6. M.M. Phukan, P.P. Pankaj, S.R. Sangma, R. Ahmed, K. Manoj, J. Saha, M.K. Ray, A.S. Kulnu, R. Kumar, K. Sagar, P.P. Das, **P. Bora**, Antimicrobial, anti-inflammatory, and wound-healing activities of medicinal plants, in *Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery*, C. Arora, D.K. Verma, J. Aslam, P.K. Mahish (eds.), Walter de Gruyter GmbH, Berlin/Boston, 2023, (eBook ISBN: 9783110791891, Paperback ISBN: 9783110791761) pp. 185-204. DOI: <https://doi.org/10.1515/9783110791891-009>.
 7. N. Bhuyan, **N.D. Choudhury**, B.K. Dutta, et al. Assessment of kinetic parameters, mechanisms and thermodynamics of *Tithonia diversifolia* pyrolysis. *Biomass Conv. Bioref.* **13**, 2703–2718 (2023). <https://doi.org/10.1007/s13399-021-01575-x>
 8. **N.D. Choudhury**, N. Saha, S. Bhaumik, et al. Production and evaluation of physicochemical, rheological, and tribological properties of Cucurbita pepo L. seed oil. *Biomass Conv. Bioref.* **13**, 1101–1114 (2023). <https://doi.org/10.1007/s13399-020-01236-5>
 9. **M Baruah**, K Kalita, Effect of longitudinal and lateral holes on the performance of an elliptical pin fin heat exchanger, *Trans Indian Natl. Acad. Eng.* **8**, 235-244 (2023).
 10. T Hazarika, **B Kakati**, D Pal, R Saikia, A Rawal, M K Mahanta, S Biswas, Role of plasma process gas on permeate flux augmentation of cellulose nitrate membrane for mud water treatment. *Nature Scientific Report*, 2023 (Accepted)
 11. T Hazarika, **P Das**, J Jose, **B Kakati**, D Pal, R Saikia, MK Mahanta, Flux enhancement of cellulose nitrate membrane through plasma assisted route for waste and mud water treatment. *Polymers for Advanced Technologies.* **34**(8), 2862-2878 (2023)
 12. T Hazarika, **B Kakati**, R Saikia. Effect of low-pressure Nitrogen plasma on surface wettability of cellulose nitrate membrane.” *Emerging Trends in Research in Sciences* ISBN: 978-93-91878-96-2, Publisher: Purbanchal Prakash, Guwahati, Assam.
 13. PN Sarma, R Sarma, B Kakati, Municipal solid waste and its impact on physio-chemical properties of soil. *Emerging Trends in Research in Sciences* ISBN: 978-93-91878-96-2, Publisher: Purbanchal Prakash, Guwahati, Assam.

14. **AA Neog, B Kakati**, S Biswas, Effect of atmospheric plasma on surface morphology of GO membrane.” Emerging Trends in Research in Sciences ISBN: 978-93-91878-96-2, Publisher: Purbanchal Prakash, Guwahati, Assam.

(b) Conferences

1. **NJ Talukdar, P Bora**, MM Phukan, **NS Chaudhari**, Microbial Fuel Cell as Power Source of Unified Power Quality Conditioner, Oral Presentation at International Conference on Energy Transition: Challenges and Opportunities, IChE-CHEMCON 2023, held during 27-30 December 2023 at Kolkata, India.
2. **N.D. Choudhury**, Investigation of fuel properties of ternary blends of diesel-winterized neem oil-bio-oil and performance analysis in CRDI-VCR diesel engine; International Conference on Trends in Energy and Environmental Research for Sustainable Development (TEERSD-2023); during 2-3 November, 2023 organised by Department of Chemical Engineering, Guru Ghasidas Vishwavidyalaya (A Central University).
3. **Z Arman, P Bora, BR Phukan, N Das**, Biochar as Bio-adsorbents for Groundwater Purification, Oral Presentation at World Water Day Program 2023 organized by Institution of Engineers (India) Assam State Centre at Panbazar Guwahati on 22nd March, 2023.
4. **NJ Talukdar, P Bora**, Microbial Fuel Cells for Simultaneous Wastewater Treatment and Sustainable Energy Generation: Recent Advancements and Future Directions, Oral Presentation at World Water Day Program 2024 organized by Institution of Engineers (India) Assam State Centre at Panbazar Guwahati on 22nd March, 2024.
5. 8th International Conference on Advanced Nanomaterial and Nanotechnology-ICANN 2023 IIT-Guwahati. “Fabrication of Wide Band-Gap Hydrogenated Amorphous Silicon Thin Films using Direct Current Magnetron Sputtering”; Rimlee Saikia, Riya Sharma, Tonmoi Hazarika, Bharat Kakati, Manoj Kr Mahanta. 28/11/2023 to 01/12/2023. Proceeding will be published.
6. 16th International Conference on Plasma Science and Applications (ICPSA-2023) University of Lucknow. “Design and Development of Ionized Vapour deposition Reactor for Fabrication of Silicon thin film at Low Temperature”; Rimlee Saikia, Riya Sharma, Tonmoi Hazarika, Bharat Kakati, Manoj Kr Mahanta. 12/12/2023 to 14/12/2023. No proceeding.
7. 17th International Conference on Polymer Science and Technology ("SPSI-MACRO-2023"). IIT Guwahati. “Hydrophilic Enhancement of Cellulose Nitrate Polymeric Membrane Through Plasma Treatment and Identify the Role of Process Gas on it”; Tonmoi Hazarika, Bharat Kakati, Rimlee Saikia, Manoj Kr Mahanta. 10/12/2023 to 13/12/2023. Proceeding will be published.
8. International Conference on Frontiers in Pure and Applied Physics- ICFPAP-2024. 29/02/2024 to 02/03/2024. USTM, Meghalaya.

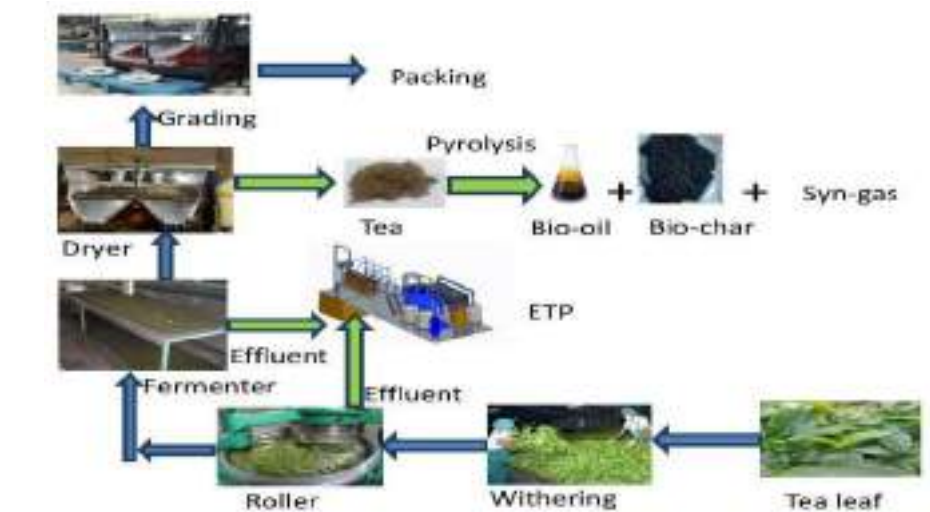
(c) Other publications

1. “Climate change and Disaster risk reduction: A report on green hydrogen development ecosystem”, Bharat Kakati *et. al.*, G20-Y20 Youth Agenda for a shared future: Perspectives from Assam, A collection of thematic papers aligned to Y20 India summit 2023, Y20 Inception Meeting, Guwahati (2023)
2. “Biochar as Bio-adsorbents for Groundwater Purification”, Z Arman, P Bora, BR Phukan, N Das, Souvenir cum Technical Volume on the theme – Groundwater: making the invisible

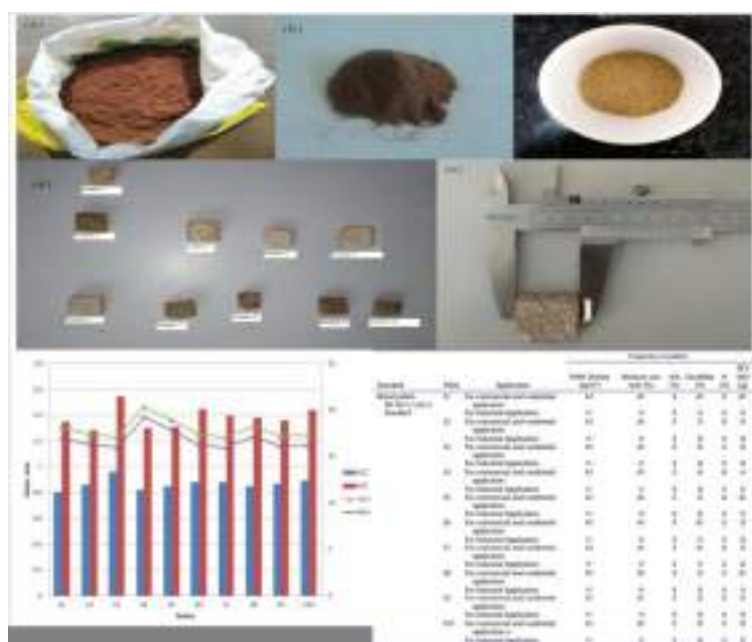
visible published by Institution of Engineers (India) Assam State Centre on the occasion of World Water Day 2023

3. “Microbial Fuel Cells for Simultaneous Wastewater Treatment and Sustainable Energy Generation: Recent Advancements and Future Directions”, NJ Talukdar, P Bora, BR Phukan, N Das, Souvenir cum Technical Volume on the theme – Water for Peace published by Institution of Engineers (India) Assam State Centre on the occasion of World Water Day 2024

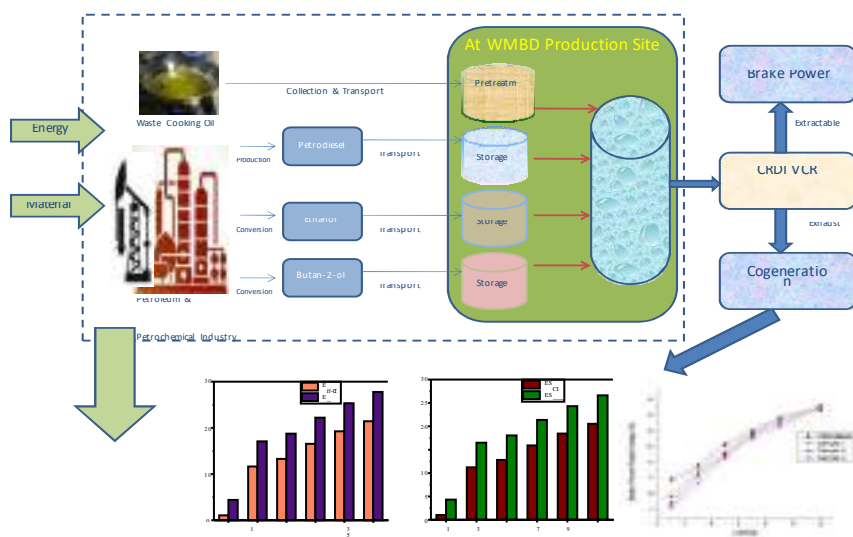
Some of the major research outputs during 2023-2024 (publications in reputed journals) utilizing these lab facilities are:



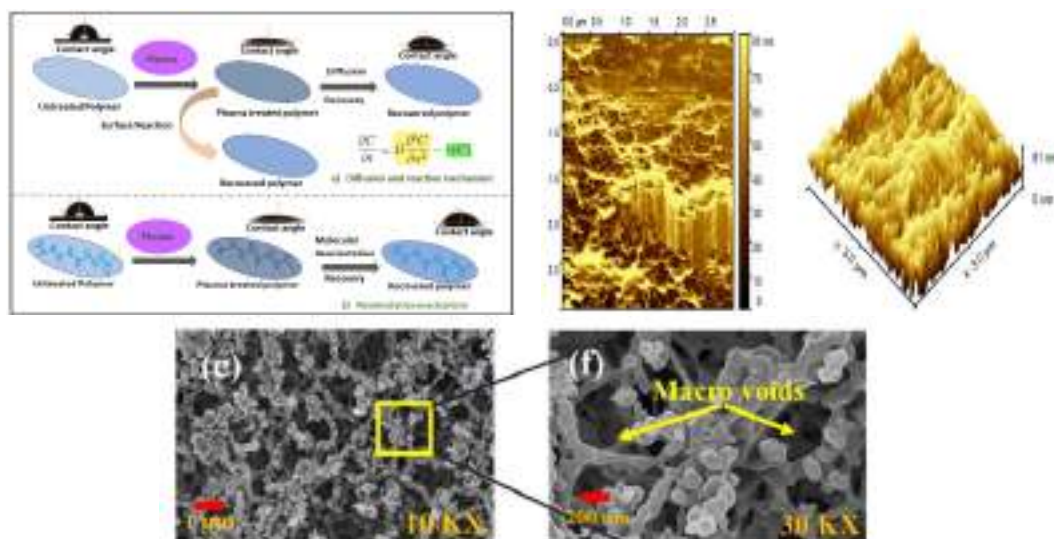
Bioenergy Generation and Value-Added Product Development from Industry Generated Tea Waste
<https://doi.org/10.1007/s13399-023-04345-z>



Assessment of kinetic parameters, mechanisms and thermodynamics of Tithonia diversifolia pyrolysis (<https://doi.org/10.1007/s13399-021-01575-x>)



Exergetic and environmental life cycle assessments for waste cooking oil microemulsion biofuel in compression ignition engine. <https://doi.org/10.1063/5.0143658>



Role of plasma process gas on permeate flux augmentation of cellulose nitrate membrane for mud water treatment. *Nature Scientific Report*, 2023

Invited talk by Faculty Members:

1. "Waste water analysis for Plasma Pyrolysis Plant, World Water Day 2023, The Institute of Engineers (India), Assam State Centre, Panbazar, Guwahati, (22nd March, 2023), Presented by Dr. Bharat Kakati
2. "Cold Plasma Technology and Its Potential Application in the Polymer Industry", Faculty Development Programme (FDP) on Characterization Techniques for Polymers and their Nanocomposites" sponsored by AICTE Training and Learning (ATAL) Academy, CIPET:CSTS-Guwahati, (8th January to 13th January, 2024), Presented by Dr. Bharat Kakati
3. "Biochar as Bio-adsorbents for Groundwater Purification", at World Water Day Program 2023 organized by Institution of Engineers (India) Assam State Centre at Panbazar Guwahati on 22nd March, 2023. Presented by Dr. Plaban Bora and Ms. Zeenat Arman

4. “Microbial Fuel Cells for Simultaneous Wastewater Treatment and Sustainable Energy Generation: Recent Advancements and Future Directions”, at World Water Day Program 2024 organized by Institution of Engineers (India) Assam State Centre at Panbazar Guwahati on 22nd March, 2024. Presented by Mr. Nayan Jyoti Talukdar and Dr. Plaban Bora

Institutional Development Projects funded by All India Council for Technical Education (AICTE), New Delhi

Title of the project	Nature of PI/Co-PI	Funding Agency	Duration of project and status	Total grant (Lakh Rupees)
1. Solar Energy Project- 15KW (min) Rooftop Solar plant to be installed at New Academic Building of ASTU	Dr Plaban Bora	AICTE-GAINER	1 yr	Rs. 20.0 lakh
2. Solving Water Problems Project- To be installed at ASTU campus	Dr. Monoj Baruah	AICTE-GAINER	1 yr	Rs. 15.0 Lakh
3. Internet Connection Project-100 MBPS internet connection to be installed with 3 servers at New Academic Building of ASTU	Dr Plaban Bora	AICTE-GAINER	1 yr	Rs. 5.0 lakh

Project on Hybrid Solar PV Power Plant Installation under AICTE GAINER (funded by AICTE, New Delhi)

A 15 kWp Hybrid PV Solar Plant has been installed recently at the rooftop of the newly constructed Academic Building (Department of Energy Engineering) of Assam Science and Technology University under AICTE GAINER Project. It aims to generate electricity with the utilization of bifacial monocrystalline solar modules, since this type of panels have various advantages such as higher efficiency, requires less space & numbers of panels, benefits of energy production during bad weather, high durability etc. A 20 KW hybrid inverter & battery storage systems are also the components of power plant. Utilization of these items would definitely enhance the flexibility, energy management and overall sustainability of the plant. The project has been designed with an objective to resolve the energy shortage problem in the campus, reduce the dependency on conventional electric supply and contribute towards saving

Project coordinator: Dr. Plaban Bora, Dept of Energy Engineering, ASTU.



	 DS Systems
1. Name of Work	Design, Supply, Erection, Installation, Testing and Commissioning of a Standalone Real-time (RT) based Data Portal System.
2. Name of User	The Registrar, Karnataka State Open Technology University, Tumkur Road, Suburban, Bangalore-560012
3. Place of Installation	New Academic Building of Karmaveer Senanayak and Technological University, DAVIE'S, Tumkur Road, Suburban, Bangalore - 560012
4. Work Order No.	A/75/Proc-2012/2013-2014/02-AR/2022/74 Suburban, Bangalore, 21.02.2013
5. Value Project (Lakhs)	Rs. 18.15 Crores
6. Name of Project executing Agency	DS SYSTEMS PVT LTD (Incorporated) New Suburban Road at PE School, Suburban, TUMKUR, Bangalore, India (+91) 9878888888
7. Agency Address	
8. Contact Number	1800-345-0716
9. Toll Free No.	
10. E-mail Address	ds@ds-systems.com

Project on solving water problem of ASTU under AICTE GAINER (funded by AICTE, New Delhi)

Safe drinking water, and adequate sanitation and hygiene, are fundamental to protecting health, and directly contribute to achieving good health and well-being. Water from any source may contain various suspended, colloidal and dissolve impurities which may be harmful for human health. Water treatment is a process through which water can make it appropriate for drinking for a specific end use. Water purification system removes all types of contaminants and

hazardous substance from the water which makes the water clean and safe to drink. The goal of water treatment is to reduce the transmission of infection diseases to an acceptably low level. Treatment for drinking water involves the removal of contaminants and inactivation of any potentially harmful microbes from raw water to produce water that is pure enough for human consumption without any short term or long term risk of any adverse health effect.

The project has been successfully implemented and completed in sept. 2023. Assam Science and Technology University is a state technical university located in Jalukbari, Guwahati Assam. The campus area is approximately 3.5 acres and it is housing nearly 216 employees of the university and M-Tech student. Beside this, nearly one hundred visitors came to the office every day. Thus, there is a need for supply of pure drinking water for the university. To meet this requirement the university procured drinking water from the market. Hence, a huge amount of money is spent for purchasing the drinking water. Therefore, a water treatment project is necessary to facilitate pure drinking water for the university campus.

Sanctioned Amount: Rs. 15,00,000.00

Project coordinator: Dr. Monoj Baruah, Dept of Energy Engineering, ASTU



Project on Installation of internet facility (LAN Set-up) under AICTE GAINER (funded by AICTE, New Delhi)

The project on Installation of internet facility (LAN Set-up) in the new academic building of ASTU is already completed under AICTE GAINER (funded by AICTE, New Delhi). This project deals with the installation of new equipment/systems/facilities for extending the existing Internet connection in newly constructed Academic building of Assam Science and Technology University. The current internet supply is not enough to cover the entire campus and it is becoming the need of the hour to expand the Internet connectivity in the university. This project aims to provide adequate internet connectivity in the Laboratory Computer, Classroom, Lecture hall etc. by installing the 24 port switches in each floor of the new Academic building. The successful completion of the project would resolve the Internet shortage problem in the campus. This project shall uphold the greater objective of availability of the internet service as well as digital learning system towards imparting higher technical education. The project, overall, would further enrich the teaching-learning process in this higher technical institution.

Sanctioned Amount: Rs. 5,00,000.00

Project coordinator: Dr. Plaban Bora, Dept of Energy Engineering, ASTU.



Establishment of an Entrepreneurship Development Centre:

The Entrepreneurship Development Centre of Assam Science and Technology University were established in the year 2023 under a project entitled, "Establish, Develop, and Manage Entrepreneurship Development Centre (EDC) and Incubation Centre (IC) in the Educational Institute of North Eastern Region," with financial support from the North Eastern Council, Shillong, Government of India. The Indian Institute of Entrepreneurship (IIE), Guwahati, serves as the nodal agency for implementing the project. Dr. Bharat Kakati, Assistant Professor of Dept of Energy Engineering is the principal investigator of the project and presently, he is acting as a Centre Head of the centre.

The main objective of the centre is to train the faculty members to grow the entrepreneurial mindset with proper innovation among the students, provide an overview and scope of entrepreneurship for North-Eastern Region and different Government initiatives/ supports for entrepreneurship. The photographs of the Entrepreneurship Development Centre is given below;



Different Programs, workshops, conferences, seminars etc attended and assignment performed by the faculty members

- 5-Day Faculty Development Program on Entrepreneurship Development at Indian Institute of Entrepreneurship held during the month of November and December, 2023.
- Three day Leadership Development Programme at Tezpur University Feb 21-23, 2024, jointly organized by NIEPA, New Delhi and Dept of Education, Tezpur University
- 5-Day Faculty Development Program on Entrepreneurship Development at Assam Science and Technology University held during Feb 28 - March 3, 2024.
- Programs on Implementation of NEP 2020 in the HEIs of Assam organized by Assam Govt at Administrative Staff College, Khanapara, Guwahati
- Programs on Vikshit Bharat at IIT Guwahati
- Meetings of Board of Studies in Physics, Chemistry and mathematics of ASTU for Four Year Undergraduate Programs under NEP 2020
- Drafting and finalization of regulations for PhD programs under ASTU

Prize and Awards:

1. Best oral presentation at 16th International Conference on Plasma Science and Applications (ICPSA-2023) organised by University of Lucknow for the talk entitled, "Design and Development of Ionized Vapour deposition Reactor for Fabrication of Silicon thin film at Low Temperature" by Rimlee Saikia under supervision of Dr. Bharat Kakati.

Events Organized:

1. **Organized a Faculty Development Program on Entrepreneurship Development, Date: 28th Feb, 2024 – 3rd March, 2024**

Coordinator: Dr. Bharat Kakati, Assistant Professor and Centre Head, Dept of Energy Engineering, ASTU

Co- coordinator: Dr. Plaban Bora, Assistant Professor, Dept of Energy Engineering, ASTU

Brief about the program:

The Entrepreneurship Development Centre of ASTU recently organized a faculty development program at its conference hall from 28th February to 3rd March, 2024. The event witnessed participation from various institutes, including JN College Boko, AEC, Pragiyotish College, Guwahati College of Architecture, and Da'' SpatioRhotique Laboratory (startup IIT Guwahati), among others. Impactful Sessions Esteemed professionals from academia, industry, and startups delivered insightful talks, contributing to a rich learning experience for all participants. An inaugural session was organized before the technical session on 28th Feb. 2024. Hon'ble Vice Chancellor, ASTU was present as a chief guest in that inaugural session. Registrar, Controller of Examination and Finance and Account Officer of ASTU was also present in that inaugural session as guest. Dr. Bharat Kakati, Assistant Professor and Centre Head of Entrepreneurship Development Centre explained the objective of the FDP program. Hon'ble Vice Chancellor of ASTU delivered a welcome address and briefly described the importance of entrepreneurship in context of NEP 2020 to the participants. The glimpse of the FDP on Entrepreneurship Development is shown below;



As per the project guidelines, Faculty members/ Instructor/ Teachers/ Researchers/ persons from HEIs, MSME, Schools, any other educational institutes, Entrepreneurship organization, Start-ups, NGO, Govt organizations etc, located in Kamrup and Kamrup(M) Districts are only allowed to participate in the event. Apart from the registration form shared by IIE, Ghy, a program brochure and google form link was created and circulated to register by the participants for the event.

2. Organized an Entrepreneurship Awareness Programme, Date: 16th March, 2024

Coordinator: Dr. Bharat Kakati, Assistant Professor and Centre Head, Dept of Energy Engineering, ASTU

An one day Entrepreneurship Awareness Programme was conducted by Entrepreneurship Development Centre of ASTU in association with IIE, Guwahati. The Program was sponsored by Office of the Development Commissioner (MSME), Govt. of India. The objective of the EAP was to sensitize and motivate the students to consider Entrepreneurship as an carrier. The event witnessed participation of students from various institutes, including Gauhati University, Assam Engineering College, Pragjyotish College and Assam Science and Technology University. Around 60 students had participated the events. Impactful Sessions with esteemed professionals from Academia, industry and startups had delivered insightful talks, contributing to a rich learning experience for all participants. Some of the photographs of the events are given below;



Patent

Sl. No.	Title of the patent	Name of the Inventors	Patent Application No and References
1	Design of an advanced hybrid plasma coating reactor	Bharat Kakati and Dhiraj Bora	<u>Patent Application No:</u> 343633-001, Ref.AGG:SKT:ayv:D_IN100527(May,2021)

Samarth

Samarth, an initiative by the Ministry of Education started in 2019, with an aim to enable the universities and Higher Education Institutions (HEIs) through a digital framework for planning, management, delivery, and monitoring of services for students, staff, and other stakeholders.

The journey of implementing Samarth e-Gov suite project started in the month of May- 2023. **On 12th May, 2023** we first met with the central Samarth team through video conferencing to understand the facilities available in the Samarth portal. The University started gaining knowledge going through the documents shared by the Samarth team.

Later on, under the guidance of Director of Technical Education (DTE) and Director of Higher Education (DHE), University has formed the Samarth team to look after various modules of the Samarth ERP system. University decided to start with the Academic and Student life cycle module and accordingly various representatives from various departments were trained by the Samarth team through the various online sessions.

Apart from the various online sessions with the SAMARTH team, University has attended/conducted following offline workshops to adopt the SAMARTH ERP by the University.

Workshop-1:

On **15th October, 2023** we attended the workshop conducted by the Director of Technical Education at the Directorate of Technical Education office premises with the representatives of eSAMARTH Portal regarding onboarding to eSAMARTH portal by State Council for Technical Education (SCTE) and Assam Science and Technology University (ASTU).

✓ The following resolutions have been adopted:

1. The representatives of Samarth described the scope, functionalities and advantages of the eSAMARTH portal in detail in respect of Entrance Examination, Admission, Registration, Semester Examination (Regular and Retest), Result declaration etc. The important points mentioned by representatives of Samarth are as follows:
 - The State Council for Technical Education/Directorate of Technical Education (DTE) and Assam Science and Technology University being under the aegis of the Department of Higher Education, Government of Assam will onboard to eSAMARTH portal, as part of the MoU signed by the Department of Higher Education, Government of Assam, with eSAMARTH.

- For the Academic Year 2023-24, the database of the students admitted in Government Engineering Colleges and Polytechnics obtained through Polytechnic Admission Test (PAT-2023), Combined Entrance Examination (CEE-2023) and Joint Lateral Entrance Examination (JLEE - 2023) and Joint MCA Entrance Examination (JMEE-2023) will have to be provided through APIs by the Directorate of Technical Education to eSAMARTH.
 - There are provisions for Entrance Examination application process, Admit Card generation, answer key uploading and Result declaration including setting of question papers, printing of question booklets, selection of examination centres, printing of OMR, scanning and result processing in eSAMARTH portal, which shall be utilised. However, as there exists no module in the ESAMARTH portal for conducting the Entrance examinations, and since conducting entrance examination is a service provided through NTA or State Council for Technical Education for Polytechnic Admission Test and Assam Science and Technology University for the Combined Entrance Examination, the same **shall be outsourced**.
 - A Learning Management System is also available in eSAMARTH that can be incorporated at a later stage.
 - There are provisions for conducting End-Semester Regular and Retest examination and Grade generation in eSAMARTH portal. However, the representatives from SAMARTH advised not to replace the existing examination management system right away but to migrate to eSAMARTH portal in a phased manner, running both the systems parallelly and test the eSAMARTH portal by identifying and implementing the pilot programme/course.
 - There are provisions for relative and absolute grading in eSAMARTH portal.
 - Digilocker linking is available in eSAMARTH portal. Employee verification can also be incorporated in the block chain security system and the same shall be explored.
 - In the student portal, all the information regarding all academic activities will be available and examination form fill-up can be done along with payment of fees through the student portal. However, all details will need to be verified by the Institute for admit card generation. Payment of fees will be done by integration of existing payment gateway of State Council for Technical Education/Assam Science and Technology University.
 - A Course Repository is to be created and Course mapping will be done after the registration process.
2. Representatives of State Council for Technical Education and Assam Science and Technology University demonstrated their existing examination management systems in detail.
 3. A demo module of eSAMARTH portal was provided by the Representatives of SAMARTH for understanding the functionalities of eSAMARTH portal.

4. All affiliated private institutes of ASTU will cover under the scope of academic and examination modules of eSAMARTH.
5. Registration of courses for institutes initially, (i) Jorhat Institute of Science & Technology (JIST) and (ii) DONA International Institute of Assam will be processed through the eSAMARTH portal till result declaration excluding Question Paper setting, moderation and distribution, etc.
6. Officials of eSAMARTH suggested to keep continuing the existing University software (ERP) in parallel with eSAMARTH for a period till all the modules of eSAMARTH as required by the University are fully active and operational.

Workshop-2:

University SAMARTH team also attended the guided workshop and hands-on training on Samarth Academic module for first semester conducted by the eSAMARTH team at New Delhi. The report may be read as:

Report

Duration of the Workshop: 21st November, 2023 to 24th November, 2023

Workshop: Handson training on the Academic module of the Samarth eGov suite.

ASTU Samarth team has attended the series of guided workshops pertaining to data migration from Admissions to Academics for the semester examination from 21st November, 2023 to 24th November, 2023. The venue of the workshop was Institute of Informatics and Communication, University of Delhi South Campus, Benito Juarez Road Delhi 110021. The workshop started with an inaugural session followed by hands on training on the Academic module of the Samarth eGov suite. Various representatives from different Universities of Assam also participated the workshop.

✓ **Following activities are completed during the Workshop:**

- Present batch 2023-2024 was created.
- Program Bachelor of Science was created with the disciplines Physics, Chemistry and mathematics for Jorhat Institute of Science and Technology.
- Program Bachelor of Science in Information Technology was created for Jorhat Institute of Science and Technology.
- Courses of Bachelor of Science (Physics, Chemistry and Mathematics) were created for JIST.
- Courses of Bachelor of Science in Information Technology was created for JIST.
- Course Structure (Major, Minor, IDC, VAC, SEC) have been created for Bachelor of Science (Physics, Chemistry and Mathematics) for JIST.
- Course Structure have been created for Bachelor of Science in Information Technology for JIST.

- Student list have been imported for the Bachelor of Science (Physics, Chemistry and Mathematics) for JIST for the session 2023-24.
- Course registration link for Bachelor of Science (Physics, Chemistry and Mathematics) and Bachelor of Science in Information Technology have been configured for JIST. Course registration link will be opened by the Academic section as per process.
- Exam form fill up link for Bachelor of Science (Physics, Chemistry and Mathematics) and Bachelor of Science in Information Technology have been configured for JIST. Exam form fill-up link will be opened by the Examination section as per process.
- Payment gateway test kit was submitted to Samarth team for implementation. However, Samarth team has suggested to configure the manual payment option for this time to make the flow uniform across the university as most of the universities have not submitted the test kit yet.

✓ **Following configurations are suggested by the university for implementation:**

- Program Registration link to be opened for different time window (i.e. Without fine, With fine, Late registration fine). Corresponding fee structure has been provided and facility for configuring the fees against the different time window to be provided.
- Course Registration link to be opened for different time window (i.e. Without fine, Late registration fine). Corresponding fee structure to be decided by the university and facility for configuring the fees against the different time window to be provided.
- Marking of NC/DC/NES facilities to be provided before opening the form fill-up link.
- Examination Form Fill-up link to be opened for different time window (i.e. Without fine, With fine, Late fine). Corresponding fee structure has been provided and facility for configuring the fees against the different time window to be provided.

Workshop-3:

University invited the SAMARTH team to clarify the technical and functional doubts through a workshop. The workshop was held on 23rd February, 2024 at ASTU conference hall.

Outcome of the workshop:

1. The modules available for the entrance examination (JLEE/ JMEE) is basically the admission module and same cannot be used for JLEE/JMEE entrance examination.
2. Verification of Student documents and marking withheld status. All the documents uploaded by students should be verified by the University before marking the students from withheld status to cleared status. Initially all students should be in withheld status only.
3. Registration Certificate to be generated in student login based on document verification.

4. Migration certificate to be generated in University Login.

Two types of Migration Certificate will be available:

i. Before completion of course.

This migration is issued when the student applies for withdrawal of Registration and leaves the college/institute before completion of course.

ii. After Completion of course.

Once migration is issued, the student profile should display a message or the profile may be blocked.

5. Two types of payment category will be available:

- **Category-1:** Students will submit the fees college. College will pay the consolidated payment along with the MIS to the University Finance team. Finance team will verify the details and approve the payment and based on approval data will flow to the next level. Example: Student registration, Student form fill up etc.
- **Category-2:** Student will directly pay the bill to the university and based on approval by the finance Department data will flow to the next level. Example: Re-evaluation etc.

6. Check point should be available such that system will not allow any student to pay more than the specified amount.
7. It was suggested by the Samarth team to start with the marks entry process of the recently held examinations once the evaluation of the same is completed.
8. Samarth team also informed that the examination related activities will be carried step wise as it approaches further.

Samarth implementation status in the University:

University has started the academic session **2023-24** for the four-year NEP based programs through Samarth ERP system. The University has conducted the examinations for the programs Bachelor of Science in Physics, Bachelor of Science in Chemistry, Bachelor of Science in Mathematics, Bachelor of Science in Food Nutrition and Dietetics, Bachelor of Science in Information Technology, Bachelor of Science in Bio-Technology and Bachelor of Science in Interior Design through the Samarth ERP system and is now in the process of completing the **post examination steps** for the same.

The University is planning to start other degree technical programs through Samarth ERP system in coming academic session i.e. **2024-25**, once the modality of the programs is fixed by the members of Govt. of Assam.

Translation of Technical Book to the Assamese Language

As per the scope of the MoU with the All India Council for Technical Education (AICTE) the university is coordinating the translation of Technical Books for Undergraduate and Diploma level engineering books to the Assamese language. The status of the translation and review of books are as follows:

Sl. No.	Technical Books	Status
1	1 st year Technical Books	Out of 20 total books (both diploma and undergraduate level), all 20 book translation from English to Assamese language are completed and has been sent to AICTE.
2	2 nd year Technical Books	Out of 88 total books (both diploma and undergraduate level), 46 books received from AICTE out of which 41 books are in the translation/review process. The translators/reviewers for 2 books are not fixed till now. Translation of three books are completed.

Photograph of the first-year Technical Book translation from English to Assamese Language



Photograph of the second-year Technical Book translation from English to Assamese Language



FDP REPORT

Program Title:

NEP 2020: PLAN FOR IMPLEMENTATION

Conducted by

**National Institute of Technical Teacher's
Training and Research (NITTTR), Kolkata**

PROGRAM CODE	:	SPL (Inhouse AEC)
PROGRAM CO-ORDINATOR	:	Prof. Urmila Kar
PROGRAM DATE	:	11 th December to 15 th December, 2023
PROGRAM VENUE	:	Assam Engineering College
PROGRAM ORGANISER	:	Assam Engineering College in association with Assam Science and Technology University (ASTU)
TARGET PARTICIPANTS	:	Faculty members from Govt. Engineering Colleges
COORDINATOR	:	Dr. Bipul Talukdar, Professor and Dr. Rashi Borgohain, Associate Professor

Time schedule of the program:

DATE	Morning Session				LUNCH - BREAK	Afternoon Session	
	8:30 am	9:00 am-10:30 am	10:30 am-11:30 am	11:30 am-1:00 pm		2:00 pm-4:30 pm	
11/12/2023 (Monday)	Registration	Inauguration Function	Speech by Prof. Debi Prasad Mishra	<ul style="list-style-type: none">New vision for India's education systemGuiding Principles of NEP 2020		<ul style="list-style-type: none">Reforms in School EducationRe-imagining Vocational Education	Activity for E-classroom
	09:30 am-01:00 pm					2:00 pm-4:30 pm	
12/12/2023 (Tuesday)	Discussion and feedback for learning assessment		NEP 2020: Reforms in Higher Education - <ul style="list-style-type: none">Equitable and Inclusive EducationHolistic and Multidisciplinary EducationInstitutional Restructuring			<ul style="list-style-type: none">Academic Bank of CreditsOnline and Digital Education to support NEP 2020Internationalisation	Activity on <ul style="list-style-type: none">Multidisciplinary & Holistic EducationEquity & Inclusion
13/12/2023 (Wednesday)	Discussion and feedback for learning assessment		<ul style="list-style-type: none">Regulatory SystemTeacher Education			Issues and challenges in implementation of NEP 2020 for HEIs	Activity on <ul style="list-style-type: none">Global Outreach of Higher EducationMotivated Energized & Capable Faculty
14/12/2023 (Thursday)	Discussion and feedback for learning assessment		Activity <ul style="list-style-type: none">Preparation of Plan for implementation			Activity (Contd.) <ul style="list-style-type: none">Preparation of Plan for implementation	
15/12/2023 (Friday)	Presentation by the Participants				Post-training Activity	Feedback & Valediction	

Learning outcomes of the program: After attending the program, participants will be able to:

- Explain the New vision and major reforms identified in NEP 2020
- Identify the issues and challenges in implementation of NEP 2020 for HEIs
- Prepare Institutional Development Plan (IDP) for implementation of NEP 2020

PROGRAM DETAILS: On 11th December, 2023, the program has been inaugurated at 9.00 a.m in presence of invited guests Prof. Debi Prasad Mishra, Director NITTTR (Kolkata), Prof. Narendra S Chaudhuri, Vice Chancellor, ASTU, Dr. Nripen Das, Registrar, ASTU, Prof. (Dr.) Pranabjyoti Baishya, Principal, Assam Ayurvedic College, Dr. Kalyan Kalita, Principal, AEC. The invited guests addressed the gatherings with warm welcome speeches. Prof. Urmila Kar, the resource person for this FDP, conducted seven technical sessions along with participant's presentation on the last day.

The National Education Policy (NEP) 2020 was introduced to reform the Indian educational system. Teachers play a pivotal role in driving educational reforms, as they are responsible for implementing interventions, innovations, and policies. Teachers need to intentionally learn and upskill themselves to keep up with the rapidly changing world. So, through this faculty development program, it is aimed to enlighten the teachers of technical colleges about the NEP guidelines and programs.

The first technical session started at 12.30 p.m. on Day 1 followed by six more technical sessions upto Day 4. The topics discussed in the sessions are listed below.

Date	Morning Session	Afternoon Session
11/12/2023 (Day 1)	-	<ul style="list-style-type: none"> ➤ Evolution of education policies and problems identified for HEL. ➤ New vision and guiding principle of NEP-2020.
12/12/2023 (Day 2)	<ul style="list-style-type: none"> ➤ Re-imagining of vocational education, challenges related to this and role of industry in vocational education. ➤ How to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. ➤ Important points about institutional restructuring. ➤ One assignment has been provided and the participants have submitted it in google classroom. 	<ul style="list-style-type: none"> ➤ Academic bank of credits-Objectives and implementation. ➤ Online and digital education – Use and challenges.
13/12/2023 (Day 3)	<ul style="list-style-type: none"> ➤ Importance of single regulatory system for higher education ➤ Creating a team of teachers with uniform acceptable standards for higher education transformation – Challenges of teacher education ➤ Some activities by the participants were done in the class itself. 	<ul style="list-style-type: none"> ➤ Institutional development plan-Steps ➤ Ensuring access of education to all, address diverse needs of learners, and eliminate social exclusion ➤ Identify the goals and objectives of the institution, and perform SWOC analysis and prepare an institutional development plan accordingly ➤ One assignment has been assigned which was submitted in g-classroom.
14/12/2023 (Day 4)	<ul style="list-style-type: none"> ➤ Issues and challenges in the salient features of the AICTE model curriculum which the NEP plans to address. ➤ Some transformative initiatives in undergraduate curriculum such as flexibility of courses allowing students to apply for double major or multi-disciplinary UG programs etc ➤ Expanding the learning outcomes like problem solving, critical thinking, value inculcation, environmental awareness and action, empathy etc 	<ul style="list-style-type: none"> ➤ Two major groups were formed amongst the participants and one task was provided to each group for presentation on day 5. ➤ 1st presentation topic is “AEC has to be transformed into Autonomous degree-granting College, prepare an IDP (5-year strategic plan for Academic and Research) to align your institute with NEP 2020.” ➤ 2nd presentation topic is “Propose a common structure for UG –degree with Research Curriculum aligning with NEP 2020. Mention the limitations of proposed structure.”
15/12/2023 (Day 5)	Both the groups presented their topics and had a discussion. All the participants have filled up feedback form.	

The participants got the idea about NEP 2020, vocational education, academic bank of credits, SWOC analysis etc. On the last day, the two major groups presented their respective topics mentioned above:

During preparation of the presentation, participants had the detailed understanding of preparation of Institutional Development Plan and curriculum aligning with NEP 2020.

The Participant list is given below.

1. Anil Borah	18. Sarmila Patra	35. Kumari Nutan Singh
2. Amrita Ganguly	19. Anakshi Das	36. Monoj Baruah
3. Bibhash Sarma	20. Dr Bornali Gogoi	37. Partha Bhowmik
4. Bimal Chandra Deka	21. Dr Utpal Nath	38. Rhitwika Barman
5. Bipul Talukdar	22. Dr. Debu Kumar Mahanta	39. Ritu Nazneen Ara Begum
6. Dr Bandanna Chakrabarty	23. Dr. Gunajit Kalita	40. Sasanka Borah
7. Dr Barnali Goswami	24. Gitanjali Majumdar	41. Souradip Choudhury
8. Dr Manjuri Hazarika	25. Kishor Kumar Das	42. Dr. Diganta Goswami
9. Dr Satyajit Bhuyan	26. Navajit Saikia	43. Angaraj Das
10. Dr. Amrita Bose Paul	27. Nelson R Varte	44. Nabarun Chakraborty
11. Dr. Bani Kanta Talukdar	28. Rashi Borgohain	45. Dr. Tapan Das
12. Dr. Maushumi Barooah	29. Tapan Jyoti Sarma	46. Riju Kalita
13. Dr. Triptimoni Borah	30. Devarshi Kashyap	47. Anup Das
14. Kabita Chakrabarty	31. Dr. Fathema Begum	48. Plabon Kakati
15. Malaya Chetia	32. Dr. Manash Bhuyan	49. D.S.Pegu
16. Purobi Patowary	33. Dr. Pulendra Dutta	50. Dr. Pankaja Das
17. Runumi Sarma	34. Dr. Rhitwikraj Moudgollya	

Few glimpses of the FDP are shown below.





Workshops Attended

1. ALAP-Academic Leadership Alignment Program to be held at National Institute of Technology Arunachal Pradesh, Jote, Arunachal Pradesh on 20th and 21st April 2023.
2. Presentation Session of All Universities on 25th and 26th May, 2023 at Conference Hall, Raj Bhavan, Assam
3. Conclave on Implementation of NEP 2020 in Assam on 15th and 16th June 2023 at Assam Administrative Staff College, Khanapara.
4. Workshop on hands-on training and curriculum mapping as per NEP 2020 at RUSA office, Kahilipara, Guwahati on 13th October 2023.
5. 2 Days RUSA sponsored Conference on Higher Education Management in State Universities of Assam (for Vice Chancellors and Senior Administrators) on 21st and 22nd December, 2023 at Gauhati University.
6. Review Meeting on Progress of Implementation of NEP 2020 in Higher Educational Institutions in Assam on 30th January 2024 at Room No. 308 Assam Administrative Staff College, Khanapara, Guwahati.
7. Faculty Development Program on Entrepreneurship Development on 3rd March 2024 at ASTU.
8. ONE DAY ENTREPRENEURSHIP AWARENESS PROGRAM (EAP) at Entrepreneurship Development Centre and Incubation Centre Assam Science and Technology University, Guwahati-13, Assam on 16th March 2024.
9. Two-day Workshop on "Management of Finances in Higher Education Institutions by NIEPA, New Delhi on 20th and 21st March 2024 at Imphal.

Report on Governor Office Meeting

Report on Governor Office Meeting

Date of the meeting: 26.05.2023

The following persons are attended from Assam Science and Technology University for the discussion about the status of the university in the Governor office –

1. Dr. Debajyoti Goswami, Registrar (i/c)
2. Dr. Nripen Das, Academic Registrar
3. Dr. Bharat Kakati, Assistant Professor

From office of his excellency, Governor of Assam, Hon'ble Governor of Assam, Prof. Mihir Kanti Chaudhuri, and another four (4) officials are attended the meeting.

Some of the key points of the meeting are highlighted below;

1. The meeting is started at around 11.45 AM. Dr. Debajyoti Goswami, Registrar (i/c) has started the meeting with the introduction of the members of the university and hand over to Dr. Bharat Kakati to present the PPT prepared for the meeting.
2. Before the PPT presentation, Prof. Mihir Kanti Chaudhuri, Advisor, Governor office has given a brief about our university to Hon'ble Governor, Assam.
3. The office of his excellency, Governor of Assam are requested to submit the status of the mutation of the allotted land for the university along with a report regarding movement of the correspondence with file no for taking necessary initiative by the office of the Governor.
4. The office of his excellency, Governor of Assam are satisfied with the adherence to academic calendar, curriculum revision as per AICTE/UGC, implementation of CBCS etc of the university. The members are requested to conduct audit of the university with special focus of Academic audit and Green audit of university and affiliated institutes.
5. The office of his excellency, Governor of Assam are requested to provide the year wise statistics of the student enrollment in engineering branches over the years. The university officials apprised that the enrollment of the government engineering colleges is satisfactory in the last year.
6. Emphasising the value education leading to character building of nationalism, the university officials informed that the university already established a Hindi section library under NEC funding.
7. The office of his excellency, Governor of Assam has instructed to update the registration through Academic Bank of Credit.

8. The office of his excellency, Governor of Assam are requested to make the plan to start some multidisciplinary courses at the university campus instead of regular courses which are available at affiliated college.
9. The office of his excellency, Governor of Assam are discussed about the NEP 2020 road map of the university. The officials of the university have submitted the draft road map for NEP 2020 implementation. The members are requested to follow the National Curriculum Frameworks to prepare the final draft of the road map also covering other courses.
10. The office of his excellency, Governor of Assam are requested to focus on research and innovation rather than emphasizing the conventional degree. The office of his excellency, Governor of Assam are suggested to apply for NIRF ranking and QS star Rating if possible. The culture of participation in NIRF ranking of the affiliated colleges should be introduced.
11. The members are discussed about the annual budget for the last three years of the university. They have been apprised the deficit amount of Rs 39.00 Crore in the financial year 2022-23. The university officials requested for immediate funding of such amount and the office of his excellency shown consent to release by putting a note on it.
12. The office of his excellency, Governor of Assam are suggested to increase the affiliation fee if possible. The officials of the university drawn an attention regarding the application of GST on such application fee. They also suggested for change of fee structure by inviting a meeting with the students in a convincing way.
13. The university officials informed about the non-funding of UGC and other central grant like RUSA due to non-registration of 12(B) of UGC act 1956. The officials also informed about that the non-availability of sanctioned posts of faculty by Government of Assam is the main criteria of such registration which has been communicated by UGC to ASTU. The office of his excellency, Governor of Assam requested to submit the correspondence along with the proposal for faculty.
14. The office of his excellency, Governor of Assam are discussed about the sanctioning of faculty position for the university and they realized that it is very important to sanction and appoint some faculty members at earliest to build a proper academic and research infrastructure as well as for NAAC accreditation and 12(B) status. The members are suggested to prepare and submit a fresh proposal for faculty requirement.
15. The members of Governor office are requested to submit the campus placement data of the affiliated colleges for last three years.
16. The office of his excellency, Governor of Assam are satisfied with the number of MoUs done by ASTU with national and international organizations. They suggested to start some academic and research activities with international organizations through MoUs.

17. The office of his excellency, Governor of Assam is convinced with the existing research facilities under the Central Research Hub and they suggested for more circulation the facilities such that more students from affiliated colleges and neighboring institutes can be benefited with the facilities. They also suggested to engaged more Ph D students in the university campus.
18. The office of his excellency, Governor of Assam have shown some interest in sanctioning some annual grant as a maintenance and operation cost of the equipment available at the university as well as in the affiliated government colleges.
19. The office of his excellency, Governor of Assam has requested to submit the detail list of research projects, publications and patent of the affiliated colleges and the university.



University Database as on 31/12/2023

• Master Data

Sl. No.	Name of the University, year of establishment and address	Status of NAAC Accreditation. If yes: year & Grade, CGPA and the Cycle number	UGC 12 (B) status. If yes: year of granting 12 (B)	NIRF rank. If yes please specify the rank and category	QS Star rating. If yes, please specify the rating	Whether campus placement in conduct. If yes, % of placement as on 31-12-2022	Whether cocurricular and extra-curricular activities are conducted	Overall student teacher ratio
1	2	3	4	5	6	7	8	9
1	Name: Assam Science and Technology University Year: 2010 Address: Tetelia Road, Jalukbari, Guwahati, Assam 781013	NO (Not Eligible)	NO (Not Eligible)	NO (Not Eligible)	NO (Not Eligible)	Campus Placement is conducted by different affiliated colleges	YES (by different affiliated institutes)	18:01 (Guest Faculty)

Strength of employee				Vacancies, if any			
Teaching	Non-teaching	Administrative	Total	Teaching	Non-teaching	Administrative	Total
10	11	12	13	14	15	16	17
4 (Guest Faculty)	0	29	33	0 (none sanction)	0 (none sanction)	0	0

No. of Departments					Department wise data							
Science	Arts	Commerce	Others	Total	Name of the Department	No. of Professor	No. of Associate Professor	No. of Assist. Professor	Number of students enrolled (Total)			
									U G	P G	Ph D	Total
18	19	20	21	22	23	24	25	26	27	28	29	30
0	0	0	1 (Engineering and Technology)	1	Energy Engineering	0	0	0 (Guest Faculty : 4)	0	13	8	21

Self/Externally funded projects/courses					
Name of project	Departments involved	Funding mode and agency details.	Duration	No. of students	No. of Teachers
31	32	33	34	35	36
1. AICTE Gainer Solar 2. AICTE Gainer Water 3. AICTE Gainer LAN 4. Plasma Pyrolysis	Energy Engineering	1. AICTE 2. AICTE 3. AICTE 4. DST, Govt. of Assam	3 yrs	0	0 (Guest Faculty : 4 -)

Inter Departmental Courses/Projects/Multi disciplinary courses		
Nos. of Courses.	Nos. of fulltime faculty.	Nos. of Students.
37	38	39
1	NIL	21

Nos. of affiliated colleges.	Any activity or achievement of significance in last one year.	Any proposed activity of significance (for the next one year).	Focal area for academic year 2023-24.
40	41	42	43
43	1. Research Publications in reputed Journals/patents.	1. Implementation of NEP 2020 in all major disciplines for UG and PG Level. 2. Implementations of PhD. Programmes as per 2022 UGC regulation	Proposed some courses on engineering on emerging area of study in engineering science and technology to Govt. of Assam.

Students Male (M) : Female (F) ratio	No. Ph.D. produced (last three years)	No. of Sponsored Research Projects along the sponsoring agency, duration and the amount sanctioned
44	45	46
1.16:1	13	NIL

Academic distinctions earned (National/International)	Preparedness for NEP 2020 implementation	Initiatives taken to implement Indian Knowledge System.	Remarks
47	48	49	50
NIL	<p>1. NEP 2020 roadmap of the university has been formulated.</p> <p>2. Assam Science and Technology University has already designed and implemented course structure of 4 year UG programme as per NEP2020 guidelines and NCeF, 2023 of UGC.</p> <p>3. ASTU is preparing engineering textbooks in Assamese Language.</p>	<p>1. Courses on Value Education, Stress management by Yoga, Personality Development through Life Enlightenment Skills, Pedagogy Skills, Constitution of India, Sanskrit for technical Knowledge, Disaster Management are included in B.Tech and M.Tech programs.</p> <p>2. Introduction of IKS is being done in Engineering programmes of the University.</p>	

• **Affiliated Colleges**

S I. N o	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data								
			A r t s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m		No. of facu lty me mbe rs	No. of student enrolled					
											U G	P G	P h D			
											Scienc e					
											Arts					
Com merc e																
Any Othe r																
1	Assam Engineering College, Jalukbari, Guwahati Ph No: 0361- 2570550	Kamr up M		Sci enc e						268	20 67	11 4	3 6			
2	Jorhat Enginnering College, Jorhat 9435095781	Jorha t		Sci enc e						65	16 57	82	0			
3	Jorhat Institute of Science and Technology, Jorhat 0376-2395369	Jorha t		Sci enc e						62	13 13	15 2	4			
4	Barak Valley Engineering College, Karimganj, Nirala, Mahakal Pt VII, Assam 788701 Ph No: 9435073661	Kari mgan j		Sci enc e						31	98 7	0	0			

S I. N o	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data				
			A r t s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m	No. of facu lty me mbe rs	No. of student enrolled		
										U G	P G	P h D
								Scienc e				
								Arts				
								Com merc e				
								Any Othe r				
5	Golaghat Engineering College, Bogorijeng, Narakanwar, Assam 785621 Ph No: 0377-4285045	Gola ghat		Sci enc e					19	89 2	0	0
6	Dhemaji Engineering College, No.5 Tekjuri, Assam 787057, Dhemaji Ph No: 9957183959	Dhe maji		Sci enc e					20	84 4	0	0
7	Bineswar Brahma Engineering College, Bijuleebari, Chandrapara, Assam 783370 PH: 03661218250	Kokr ajhar		Sci enc e					37	11 97	0	0
8	Guwahati College of Architecture and Planning, Jobe Road, airport Flyover, Jogipara - Jabey Rd, near Guwahati, Azara PH: 8448445575	Kamr up M		Sci enc e					14	73	13	0

S I. N o	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data					
			A rt s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m		No. of facu lty me mbe rs	No. of student enrolled		
											U G	P G	P h D
								Scien ce					
								Arts					
								Com merc e					
Any Othe r													
9	Assam Institute of Management, Guwahati, Vigyan Path, Near IASST, Paschim, Boragaon, Guwahati, Assam 781035 PH: 03612131992	Kamr up M		Sci enc e						10	0	97	1 0
10	Scholars Institute of Management and Technology, Garoghuli Rd, GARCHUK, Guwahati, Lokhara N.C., Assam 781035 PH: 9435592656	Kamr up M		Sci enc e						30	49 4	0	0
11	North Eastern Regional Institute of Water and Land Management, Dolabari, Tezpur, Assam 784027	Tezp ur		Sci enc e						9	0	21	1
12	North East Institute of Management Science (NEIMS), Jorhat	Jorha t		Sci enc e						12	13	52	0

S I. N O	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data					
			A r t s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m		No. of facu lty me mbe rs	No. of student enrolled		
											U G	P G	P h D
13	Silapathar Science College, Silapathar Amritpur, Silapathar, Assam 787059 PH: 9954422019	Dhe maji		Sci enc e						10	0	43	0
14	CT College, Tinsukia Kalimandir Rd, Parbatia, Tinsukia, Assam 786125 PH: 7002703544	Tinsu kia		Sci enc e						9	42	0	0
15	Daffodil College of Horticulture, Khetri Vidyanagar, Khetri, Assam 782403 PH: 9957230094	Kamr up		Sci enc e						18	23	0	0
16	National Institute of Electronics and Information Technology (NIELIT), Guwahati	Kamr up M		Sci enc e						20	25	16	0

S I. N O	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data					
			A rt s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m		No. of facu lty me mbe rs	No. of student enrolled		
											U G	P G	P h D
17	National Institute of Electronics and Information Technology (NIELIT), Jorhat 9436891584	Jorha t		Sci enc e						9	0	0	0
18	National Institute of Electronics and Information Technology (NIELIT), Tezpur 9435081619	Tezp ur		Sci enc e						11	9	0	0
19	National Institute of Electronics and Information Technology (NIELIT), Dibrugarh 9435530046	Dibru garh		Sci enc e						8	4	0	0
20	National Institute of Electronics and Information Technology (NIELIT), Kokrajhar	Kokr ajhar		Sci enc e						8	3	0	0
21	Pub Kamrup College,Baihata Chariali , Assam 9435140188	Kamr up R		Sci enc e						22	0	14 7	0

S I. N o	Name of the College with complete address and phone number	District	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data				
			Arts	Science	Commerce	Any other	Total	Stream	No. of faculty members	No. of student enrolled		
										U G	P G	P h D
								Science				
								Arts				
								Commerce				
								Any Other				
22	Dibrugarh Hanumanbax Surajmall Kanoi College, Dibrugarh ph: 9435030404	Dibrugarh		Science					9	0	50	0
23	Tocklai Tea Research Institute, Cinamara, Lichubari, Jorhat, Assam 785008 ph: 09434737178	Jorhat		Science					39	36	0	0
24	Netes Institute of Tehnology and Management, Mirza 9854007355	Kamrup		Science					7	26	94	0
25	Dona International Institute of Assam, Azara, Assam 8448445575	Kamrup		Science					6	15	0	0

S I. N o	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data								
			A rt s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m		No. of facu lty me mbe rs	No. of student enrolled					
											Sci en ce			U G	P G	P h D
Arts																
Com merc e																
Any Othe r																
26	Seva Bharati Purbanchal (Seva Bharati Institute of Fire, Safety and Disaster Management), North Guwahati, Assam PH: 9435054260	Kamrup		Sci enc e						9	19	0	0			
28	Daffodil College of Agriculture and Technology, Khetri Ph: 9707488672	Kamrup		Sci enc e						21	27	0	0			
34	Netes Institute of Pharmaceutical Science (NIPS), Mirza, Assam ph: 9854007355	Kamrup		Sci enc e						33	21 3	11 5	1 0			
35	Asian Mission Institute of Pharmaceutical Sciences, Barpeta asianmissioninstitute85@gmail.com Ph: 9435097024	Barpeta		Sci enc e						7	65	0	0			

S I. N o	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data					
			A rt s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m	No. of facu lty me mbe rs	No. of student enrolled			
								Sci enc e		U G	P G	P h D	
Arts													
Com merc e													
Any Othe r													

36	Girijanada Institute of Pharmaceutical Science – Tezpur Ph No: 9435380257	Tezpur		Sci enc e						18	207	0	0
37	Rahman Institute of Phamaceutical Sciences and Research (RIPSR) Ph 7002486750	Kamrup		Sci enc e						23	177	0	0
38	Pratiksha Institute of Pharmaceutical Science Chandrapur Rd, near Central Training Center, Panikhaiti, Assam 781026 Ph No: 9085122222	Kamrup M		Sci enc e						23	183	0	0

S I. N O	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data				
			A r t s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m	No. of facu lty me mbe rs	No. of student enrolled		
										U G	P G	P h D
								Scienc e				
								Arts				
								Com merc e				
								Any Othe r				
39	Girijananda Chowdhury Institute of Pharmaceutical Science - Azara NH37, Hatkhowapara, Azara, Guwahati, Assam 781017	Kamrup		Sci enc e					31	35 6	31	0
40	Kamrup Institute of Education and Technology, Amingaon, North Guwahati, Assam Ph: 9435119315	Kamrup		Sci enc e					NIL			
41	Tinsukia College, Tinsukia College Rd, Kachujan, Tinsukia, Assam 786125 Ph: 9435139285	Tinsukia		Sci enc e					NIL			
42	Gauhati Commerce College, Guwahati	Kamrup M		Sci enc e					NIL			

S I. N O	Name of the College with complete address and phone number	Distri ct	Existing streams (Arts, Science, Commerce, BEd)					Stream wise data					
			A rt s	Sci enc e	Com merc e	An y ot he r	To ta l	Strea m		No. of facu lty me mbe rs	No. of student enrolled		
											U G	P G	P h D
4 3	National Power Training Institute, Dakhingaon Road, Kahilipara Guwahati, 781019	Kamr up		Sci enc e						NIL			

10
96
7

10
27

Name of the NSS cell: Assam Science and technology University, Guwahati

ASTU has received approval from the Director, Sports and Youth Welfare, Assam on 29th February and sanctioned its 10 units on 11th and 16th March, 2020.

Number of current NSS Units: 8

Sl. No.	Name of the Units
1	Assam Engineering College, Guwahati
2	Jorhat Institute of Science and Technology
3	Barak Valley Engineering College
4	Bineswar Brahma Engineering College
5	NETES Institute of Pharmaceutical Sciences
6	Pratiksha Institute of Pharmaceutical Sciences (PIPS)
7	Golaghat Engineering College
8	Dhemaji Engineering College

Number of Programme Officers: 8

Total number of enrolled Volunteers for 2022-23: 800

Number of **Female** volunteers: 283

Number of **Male** volunteers: 517

Units situated at 6 districts of Assam (Kamrup, Kamrup Metro, Jorhat, Karimganj, Dhemaji and Golaghat)

Some of the key activities completed by the Units during the period 2023-24:

Unit-1: Barak Valley Engineering College

Activities:

1. International Youga Day Celebration 2023:

As a part of Mega Event being organized on 21st June, 2023 through out the nation ahead of NSS unit of Barak Valley Engineering College, Karimganj organized Yoga School, in alliance with Paramanand Institute of Yoga Science and Research, Indore.



2. World Environment Day 2023 Celebration:

Celebration of World Environment Day 2023 by NSS Unit of Barak Valley Engineering College, Karimganj in association with District administration Karimganj on 5th June, 2023.



3. Tree Plantation Drive at BVEC Campus:

NSS Unit BVEC Karimganj, in association with Bharat Vikash Parishad an NGO, organized Mega plantation Drive at BVEC Campus on 8th June, 2022.



4. Celebration of Independence Day:

Today NSS Unit of Barak Valley Engineering College, Nirala organized Inter School Art competition, Movie on Freedom Fighter on the Occasion of Azadi ki Amrit Mahotsav on 15 August, 2023.



5. Voluntary Blood Donation Camp:

The 2nd blood donation camp of BVEC organized by the NSS unit in collaboration with Silchar Medical College and Hospital on 12th Sept. 2023. Around 35 Volunteers donated blood.



6. NSS Foundation Day Celebration:

NSS Day is the celebration of the selfless spirit of service that drives us to make positive impact on the lives of others. NSS Unit BVEC celebrated the day on 24th September, 2023 with a commitment to bring positive change in the society.



7. Gyan Valley Entrance Exam for JNV:

Gyan Valley Center, a wing of NSS Unit Barak Valley Engineering College, Karimganj conducted Admission test on 14th October, 2023 for Class 3 and Class 4 for selection of Free JNV Entrance Coaching classes.



8. Swachhata Hi Sewa Campaign:

NSS unit participate in Swachhata Hi Sewa Campaign in and around Campus and adopted villages.



9. Celebration of Unity Day:

Unity pledge is taken by NSS volunteers, staffs and faculties of Barak Valley Engineering College, Karimganj on the occasion of National Unity Day held on 31st October, 2023.



10. Workshop on Importance of Yoga:

Importance of Yoga for Healthy Life was conducted by NSS Unit of BVEC Karimganj at Sridurga LP School, Nirala on 25th Nov, 2023.



11. World AIDS Day 2023:

Observation of World AIDS Day 2023(Theme: Let Communities Lead) organized by NSS Unit of Barak Valley Engineering College, Karimganj on 1st December, 2023.



12. Cloth Donation Drive:

Cloth Donation Drive organized at Shyirishpur Tea State in Karimganj District on 9th Jan, 2024. Around 250 pieces of cloths is distributed among children and women of the tea state.



13. Awareness on "Road Safety Norms":

Awareness on "Road Safety Norms" Organized by NSS Unit of Barak Valley Engineering College in association with District Administration Karimganj on 21st February 2024.



14. Voter Awareness Campaign:

Voter Awareness Campaign at Barak Valley Engineering College, Karimganj organized on 4th March, 2024.



Unit-2: Assam Engineering College

Activities:

1. Empowering Future: A field visit to Parijat Academy, Guwahati:

Parijat Academy is a non-profit Organization that offers holistic education to children from less privileged, tribal communities. It provides free education to the socially as well as economically disadvantaged communities in the outskirts of Guwahati, Assam. On October 8, 2023, 40 NSS AEC volunteers embarked on a field visit to Parijat Academy, an institution dedicated to supporting financially disadvantaged students. During the visit, NSS AEC contributed essential supplies such as books, pens, pencils, and erasers, aiming to support the educational needs of the students. A shared lunch was organized, promoting a sense of community and camaraderie.



2. Workshop on Entrepreneurship “How to Innovate in the Digital Age: Bridging Engineering and Entrepreneurship”: The NSS AEC hosted an insightful online webinar on “How to Innovate in the Digital Age: Bridging Engineering and Entrepreneurship,”

featuring Mr. Pravin Agrawal, CEO, and Co-founder of Better place. The event, held on November 5, 2023, witnessed active participation with approximately 82 volunteers from the 1st, 3rd, and 5th semesters.



3. Plantation Drive:

The volunteers of NSS AEC unit have successfully organized a plantation drive in the same site i.e. AEC Garden, where a cleanliness drive was organized on the previous day i.e. 10th Feb'24.



Unit-3: Golaghat Engineering College

Activities:

1. Amrit Brikshya Andolan:

The Assam government has embarked on a significant endeavor known as the Amrit Brikshya Andolan, under the leadership of Chief Minister Shri Hemanta Biswa Sarma. This initiative aims to foster a greener and more sustainable environment in the state by planting one crore seedlings. The Andolan, officially launched on June 8, 2023, holds the promise of enhancing the state's green cover and promoting a tree-based economy. The unit have planted 100 plants inside the college.



2. Cleaning Programme:

GEC organized Cleanliness Drive under Swachh Bharat Abhiyaan Programme. The main purpose of this was to create awareness among the students regarding Cleanliness and its benefits. Under this programme all the students had to participate. Even teachers were the essential part of this drive. As a part of this cleanliness drive, we had to clean the whole campus.

Unit-4: Jorhat Institute of Science and Technology

Activities:

1. World Environment Day:

On the occasion of World Environment Day, the NSS unit JIST orchestrated a commendable tree plantation program on 5th June, 2023. The event saw enthusiastic participation from NSS volunteers, dedicated teachers, and our esteemed principal. Together, they worked tirelessly to plant a multitude of trees, embodying the spirit of environmental stewardship.



2. Gandhi Jayanti:

On the auspicious occasion of Gandhi Jayanti, observed on October 2nd, the NSS unit JIST orchestrated a profound cleanliness drive. NSS volunteers, displaying unwavering dedication, wholeheartedly cooperated in this endeavor. With brooms in hand and a passion for service in their hearts, they tirelessly worked towards the noble goal of creating a cleaner environment.



3. My Bharat Viksit Bharat:

A Mass registration camp has been organised in the institute on 15th December, 2023, to guide and motivate new NSS volunteers for registering and participating in the activity. A total of 140 Yuva has registered in the portal, all of which participated in idea filling activity and has successfully taken the pledge.



4. Celebration of National Voters Day:

National Voters Day was celebrated with great enthusiasm in the college on 25th January, 2024, marked by an engaging essay competition. Students from various disciplines participated eagerly, showcasing their passion for democracy and civic engagement. The event served as a platform for students to express their views on the theme **“Empowering Democracy: The Role of Youth in Ensuring Inclusive Voting Practices”**. Through their insightful essays, participants highlighted the significance of active participation in the electoral process and emphasized the need for informed decision-making. The competition not only fostered critical thinking and communication skills but also instilled a sense of responsibility towards the democratic fabric of our society. As they commemorated National Voters Day, they were reminded of the invaluable privilege bestowed upon us as citizens to contribute to the democratic process and uphold the ideals of justice, equality, and fraternity.

Unit-5: NETES Institute of Pharmaceutical Science

Activities:

1. Shramdaan Activity:

The NSS volunteer actively engaged in a Shramdaan activity with 80 other participants in the Santipur region of Mirza. The collaborative effort aimed at community development and cleanliness initiatives. The volunteers collectively worked towards enhancing the local environment, showcasing a commendable spirit of civic responsibility. Through their active involvement, they contributed to the betterment of the Santipur area, fostering a sense of community well-being.

2. World Environment Day:

NSS volunteers enthusiastically celebrated World Environment Day by planting a total of 50 saplings. The event saw the active participation of 50 volunteers who came together to contribute to environmental conservation. With dedication and eco-conscious spirit, the volunteers planted diverse tree species, fostering a greener and healthier environment.



3. Celebration of Republic Day:

NSS volunteers, alongside students and faculty, celebrated Republic Day with fervor, demonstrating unity and patriotism. A total of 100 volunteers actively participated in various events, showcasing their commitment to national pride and service. The celebration included flag hoisting, cultural performances, and awareness sessions on civic duties.



Unit-6: Bineswar Brahma Engineering college

1. World Environment Day Celebration:

On June 5th 2023, On Occasion of World Environment Day, NSS UNIT Bineswar Brahma Engineering college Kokrajhar joined hands to save environment by planting Trees and nurturing existing tress.



2. International Yoga Day celebrated:

On June 21st 2023, International Yoga Day celebrated by NSS volunteers of Bineswar Brahma Engineering College Kokrajhar Assam.



3. Meri Mati Mera Desh Celebration:

On August 10th 2023, On 'Meri Mati Mera Desh' plantation drive organised by NSS unit of Bineswar Brahma Engineering college Kokrajhar Assam.



4. Panch Pran Pledge:

On August 11th 2023, Panch Pran Pledge at Bineswar Brahma Engineering college Kokrajhar under Meri Maati Mera Desh Campaign by NSS Unit BBEC.



5. Anti ragging program:

On August 12th 2023, Bineswar Brahma Engineering college Kokrajhar organized a anti ragging program in collaboration with NSS unit at college premises.



6. 77th Independence Day Celebration:

On August 15th 2023, Hoisting of Indian National Flag in Bineswar Brahma Engineering college, Kokrajhar on 77th Independence Day of India. The Flag Hoisted by Dr. Kamal kr. Brahma, Principal, Students, staff members.



Unit-7: Dhemaji Engineering College

1. World Environment Day:

Plantation Drive as part of World Environment Day has been organized on 05.06.2023.



2. Celebration of Independence Day:

On August 15th 2023, hoisting of Indian National Flag in Dhemaji Engineering College, Dhemaji on 77th Independence Day of India.



3. Gandhi Jayanti Celebrations:

Swachh Bharat Abhiyan & Shramdan organised at DEC on 1st & 2nd October, 2023 as part of Gandhi Jayanti Celebrations





4. Amrit Kalash Yatra:

Amrit Kalash Yatra organised at DEC on 13th October, 2023.



5. Panch Pran Pledge:

Panch Pran Pledge organised at DEC ON 13th October, 2023.



6. Republic Day Celebrations:

Republic Day Celebrations at DEC on 26th January, 2024.



7. Entrepreneurship Awareness Programme:

Entrepreneurship Awareness Programme organised on 23rd February, 2024.



Achievements:





Unit-8 Pratiksha Institute of Pharmaceutical Sciences

1. Cleanness drive at college campus:

On 27/05/2023 a cleanness drive was organized at the college campus where 21 volunteers were participated.



2. An Awareness works regarding sustainable Practices, use of plastic, and promoting a healthy lifestyle at Tinukura N. C. Village, Narengi, Kamrup. The programme was conducted on 27th May, 2023 where 43 volunteers were participated.



3. Medical Health Camp:

Free medical health camp- Pratiksha Educational Trust in Collaboration with Pratiksha Hospital, at Tinukura N. C. Village, Narengi, Kamrup on 28th May, 2023.



4. World Environment Day:

World Environment Day was celebrated on 5th June, 2023 where 46 volunteers were participated.



5. International Yoga Day:

International Yoga Day was celebrated on 21th June, 2023 where 60 volunteers were participated.



6. National Sports Day:

National Sports Day was conducted on 29th Aug, 2023 where 36 volunteers were engaged.



7. NSS Day:

NSS Day was organized on 24th Sep, 2023 where 35 volunteers were participated.



8. Shramdaan For Swachhata:

Shramdaan For Swachhata was organised on 1st Oct, 2023 where 20 volunteers were engaged.



9. Interaction Program on Viksit Bharat@2047:

Interaction Program on Viksit Bharat@2047 was conducted on 11th Dec, 2023 where 100 volunteers were engaged.



Viksit Bharat@2047: Initiative by ASTU

Establishment of Viksit Bharat Cell@2047:

Viksit Bharat@2047 represents the government of India's ambitious vision to transform the nation into a developed entity by the centenary of its independence in 2047. ViksitBharat@2047 was launched by the Prime Minister of India, Shri Narendra Modi, on 11th Dec. 2023, through a video conference with the Vice Chancellors of Universities, Heads of Institutes and faculty members in workshops organized by Raj Bhawan across the country. The representatives of Assam Science and Technology University joined the ViksitBharat@2047 event, conducted by Raj Bhavan Assam on 11th December, 2023 at IIT-Guwahati. With the Hon'ble Vice Chancellor, the faculty members and students of Assam Science and Technology University were participated the Viksit Bharat @ 2047 event, conducted by Raj Bhavan Assam with an attempt to engage students to give suggestions for Viksit Bharat@2047.

To fulfil the vision of the Hon'ble prime Minister of India, Assam Science and Technology University has established a ViksitBharat@2027 Cell to make India as developed country by 2047 by engaging the students to suggest their ideas for the development of the country. Apart from that the university has circulated a notification to establish the ViksitBharat @2047 Cell at all the affiliated institutes/Colleges and requested to the principals of the affiliated colleges to encourage the students to take part in the competition for Viskit Bharat @2047.

Convocation

a. Report on the 3rd Convocation of ASTU

The Third Convocation of Assam Science and Technology University was held on 19th June 2023 at Srimanta Sankardeva International Auditorium, Guwahati.

The convocation was presided over by Hon'ble Chancellor and Governor of Assam Shri Gulab Chand Kataria. The Guest of Honor of the function was Prof Bhupendra Nath Goswami, Meteorologist, Climatologist and Former director of IITM. Hon'ble Chief Minister of Assam Dr Himanta Biswa Sarma was also invited to the convocation ceremony but he could not attend because of urgent pre occupation.

A total no of 2768 students were graduated, out of which there were 15 Gold Medals and 50 Programme Toppers from the different areas of study.

Sl.No.	Courses	Total
1	B.Sc in Computer Science	7
2	B.Sc. in Applied Physics	4
3	B.Sc in Chemistry	24
4	B.Sc in Information Technology	53
5	B.Sc in Mathematics	19
6	B.Sc in Physics	26
7	B.Sc in Zoology	16
8	Bachelor of Architecture	16
9	Bachelor of Business Administration	10
10	Bachelor of Computer Application	35
11	Bachelor of Design	30
12	Bachelor of Engineering	152
13	Bachelor of Pharmacy	233
14	Bachelor of Technology	1462
15	Diploma in Pharmacy	137
16	M. Sc in Chemistry	23
17	M. Sc in Mathematics	39
18	M. Sc in Physics	30
19	M. Sc in Zoology	39
20	M. Sc in Botany	14
21	M.Sc in Bio Physics	5
22	M.Sc. in Computer Science	16
23	M.Sc in Anthropology	2
24	M.Voc	16
25	MSW	2
26	Master in Engineering	1
27	Master of Business Administration	39
28	Master of Business Administration (Trimester mode)	67
29	Master of Computer Applications	126
30	Master of Computer Applications (GU regulation)	1

Sl.No.	Courses	Total
31	Master of Planning	11
32	Master of Technology	71
33	Master of Technology (GU regulation)	8
34	Master in Pharmacy (M.Pharm)	34
TOTAL		2768

The academic procession of the convocation consisting of Registrar, Chancellor, Vice Chancellor, Guest of Honor, Academic Registrar, Court Members and Executive Council Members entered the Convocation hall at 11am. The Convocation programme started with National Anthem followed by University Anthem. As per Assam Science and Technology University Statues the Chancellor declares the Convocation open.

The Vice Chancellor of Assam Science and Technology University, Prof N S Chaudhari gave the welcome address and presented a brief University report. He explained the achievements of the University in various fields of knowledge in Science and Technology. He advocated the spread of vocational education, skill training and industry-academia and community-academia relationships. He mentioned that the University is currently offering 11 Undergraduate Engineering, 11 Post Graduate Engineering, 18 other undergraduate and 18 other post graduate, 3 diploma and 13 doctoral Programs. The university has implemented the AICTE model curriculum and the UGC-CBCS model curriculum in 2018-19. A uniform curriculum for the M.Tech programs has been implemented by ASTU from the academic session 2020-21 as per the guidelines of AICTE model curriculum. He further mentioned that the total intake capacity of students under all academic programs is about 4500. In 2019-20, 2020-21 & 2021-22 academic sessions; 2705, 3480 and 3442 students, respectively, registered in different academic programs. There are 194 scholars at present who are pursuing their doctoral research in the University in different fields of science & engineering, pharmaceutical science and management. The University is conducting the in-house M.Tech program in Energy Engineering since 2016-17 with an AICTE's approved intake of 18. The University is committed to provide facilities for quality research. ASTU has been receiving five (5) numbers of fellowships per academic session for doing doctoral research (PhD) under 'AICTE Doctoral Fellowship (ADF) Scheme' since the academic session 2020-21. ASTU is among the 41 (forty-one) technical institutions of the country and the only state university in Assam which is selected by AICTE to conduct the doctoral program under the ADF scheme. A number of research articles have been published by the University faculties and students since 2016 in quality international journals and books. Moreover, a total of 117 research proposals were granted to faculty members of ASTU and its affiliated engineering colleges under the Collaborative Research Scheme of Technical Education Quality Improvement Programme (TEQIP-III) under Ministry of Education (formerly the Ministry of Human Resource Development), Govt. of India. The University has already established a Central Research Hub to provide state of art research facilities to the researchers and UG/PG level students. The research hub mainly consists of four different laboratories namely, Multidisciplinary Experimental and Testing Accessible Laboratory, Material Science Laboratory, Tribology Laboratory and Energy Laboratory.

The University has a collaborative project with Curtin University, West Australia under the initiative of Govt. of Assam to study the gap in various academic spheres of the technical education in the state of Assam. A number of Memorandum of Understandings (MoU) has been executed by the University with various academic institutions and industries. ASTU signed an MoU with The Peoples' Friendship University of Russia (also known as RUDN

University), Moscow, on 28th July, 2020. Within the scope of the MoU, total four (4) students are pursuing MS programs with a scholarship.

ASTU is collectively working out to understand and explore the possibilities for a systematic implementation of National Education Policy 2020 (NEP-2020) for the benefit of our stakeholders, and to our society. The first phase comprehensive action plan for NEP-2020 implementation in different UG/PG programs of the University has been already formulated. The state government of Assam has recently declared ASTU as a 'Teaching and Research University' which will definitely facilitate for aligning the teaching-learning process of the University at par with the visions of NEP-2020. In this regard, the university is focusing on establishing cutting edge infrastructure for conducting multidisciplinary research-and innovation-activities with the support of the state and central governments.

NEP-2020 also envisages imparting education in regional languages to all. As per the scope of the MoU with AICTE, the University is coordinating the translation of Technical Books for Undergraduate and Diploma level engineering books from English language to Assamese language. The translation process for total 20 numbers of technical books of 1st year undergraduate and diploma courses are almost completed. Another, total 86 numbers of books of 2nd year undergraduate and diploma level technical courses are proposed to be translated from English language to Assamese language. The University is also offering a wide range of options and innovative courses. Board of studies (BOS) of different departments, Post Graduate Board, Under Graduate board, Academic Council, Research Committee, etc. are regularly convened by the university. The University is concerned about the employability of the graduates. University has included academic and industry experts from outside ASTU for revision of the course structures and syllabi of UG and PG programs as per AICTE/UGC model curriculum and syllabi. The University aims to conduct examinations and declare results in time. The student enrollment and examination result processing system have been computerized. National Academic Depository (NAD) is a 24X7 online store house of all academic awards viz. certificates, diplomas, degrees, mark-sheets; duly digitized and lodged by academic institutions / boards / eligibility assessment bodies. The University has joined the NAD as per the Ministry of Education, Govt. of India guidelines. The University has been entrusted to conduct the Combined Entrance Examination (CEE) from 2018 onwards for admission into State Engineering Colleges and also Joint Lateral Entry Examinations (JLEE) / Joint MCA Entrance Examinations (JMEE) from 2018 onwards, by the Department of Higher Education (Technical), Govt. of Assam.

He concluded his speech by congratulating all the graduating students and stating that the undergraduate technological education has given some exposure to the domain knowledge. More importantly, the university education is not to teach exhaustively any subject, but to make everyone capable for life-long learning. Future is uncertain; however the university education is a tool that you would pursue throughout the profession career to excel in the tasks to deal with.

The graduates took a solemn pledge which was conducted by Hon'ble Chancellor of the University with the presence of all members of University Court, Executive council to serve the society throughout their lives in such a manner that will bring prosperity to the society with the contribution in different fields.

Degrees were conferred to 2768 no of students. Degree in absentia were also conferred by Hon'ble Chancellor.

Award of Gold Medals was conferred to 15 graduates in different fields of knowledges along with 50 Programme Topper certificates which was followed by the exhortation by the Chancellor.

The Guest of Honour Prof Bhupendra Nath Goswami express his heartfelt Congratulations and best wishes for receiving Higher Education Degrees to all the graduates. In his speech he said that with training in Science and Technology, the Country in general and Northeast region will be looking up to contribute to solving some of the serious problems the country such as the Climate Change and Sustainable Development and regionally such as the Flooding and Erosion of the Brahmaputra. ASTU can take the leadership by providing Institutional support to some talented students and to establish the 'Proof of Concept' of their innovation ideas. As the only technical University dedicated to Science and Technology in Northeast India, ASTU fills an important gap in higher education and research in the region. He further stated about the challenges and technology Institutions like the IITs and ASTU's of the country must gear up to create a new generation of innovators to do the job. ASTU will emerge as a beacon of hope for science and technology innovations in the NEI.

The Hon'ble Chancellor of ASTU Shri Gulab Chand Kataria in his speech mentioned the University has come a long way to make a mark in to the field of technical education. The University will continue to operate with commitment and value, and encourage all to put in all efforts for the progress of the society. It is an established fact that quality of education being nurtured by the University depends a lot on the linkage that are established alongside the process of producing graduates. Therefore, this University has been taking steps to introduce graduate and post graduate courses in the niche areas of engineering, technology, pharmaceutical science, architecture, management etc., keeping in consideration of modified curriculum on industry-institution interface. The changing 3 scenario driven by globalization in education demands the establishment of linkages with national- and international-level acclaimed institutions. It is heartening to note that the University has already taken such steps. The main task of the University is to spread knowledge, skill development and continuous promotion of research and innovation. The future of India depends on our ability to provide quality higher education opportunities to our youths. Aiming to facilitate more inclusive, holistic and global quality education, our central government has introduced the National Education Policy of India 2020 (NEP 2020). It is a step towards realizing the 4th goal of the United Nations Sustainable Development Goals (SDGs) which aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all by 2030. It is a futuristic manifesto that could bolster the growth and progress of the nation. The policy is the first education policy of the 21st century that lays forth a comprehensive scheme towards re-engineering the educational ecosystem of the country, from pre-primary to higher education. However, the implementation and adaptation of the policy require 4 earnest pursuit from all stakeholders. Higher Educational Institutes ought to build their strategy in order to ascertain the implementation of the NEP, in letter and spirit. The University, as a part of implementing NEP 2020 will have to focus on education and research in technical fields with interdisciplinary and multi-disciplinary perspectives in the ensuing days. These initiatives should include addressing of different relevant issues of the Northeast and bringing out their appropriate technical solutions to stimulate the growth and development of the region. Technology has been a bliss in today's society. Never in human history we have witnessed such speed of technological change and the ubiquity of technology. Technology has transformed every human activity from the way we communicate and interact to the way we work in an office and lead our life.

The Registrar ended the convocation with a vote of thanks followed by the National Anthem.

The academic procession of the convocation leaves the convocation hall.
Photos of Third Convocation held on 19th June 2023





b. Report on the 4th Convocation of ASTU

The fourth Convocation of Assam Science and Technology University was held on 18th Dec 2023 at Srimanta Sankardeva International Auditorium, Guwahati.

The convocation was presided over by Hon'ble Chancellor and Governor of Assam Shri Gulab Chand Kataria. The Guest of Honour was Shri. Prafulla Ketkar Editor, The Organizer, New Delhi.

A total number of 2422 of candidates were graduated covering a period of odd semester 2022 to even semester examination 2023 out of which, there were 15 Gold Medals and 46 Programme Toppers from the different areas of study.

Sl. No.	BRANCH	TOTAL NO OF STUDENTS
1	Advanced Diploma in Occupational Safety, Health & Environment	9
2	Bachelor of Architecture	22
3	B.Sc	107
4	BBA	19
5	BCA	48
6	BTM	3
7	Diploma in Tea Management	37
8	M.Plan	8
9	M.Sc	142
10	MBA	31
11	MBA Trimester	36
12	Master in Hospital Administration	22
13	Master in Social Works	14
14	Master in Tourism Management	6
15	B .Pharm	244
16	B.Pharm (Practice)	6
17	D.pharm	98
18	M.Pharm	40
19	B.E	33
20	B.Tech	1378
21	ME	1
22	M.Tech	57
23	MCA	60
Total		2421

Sl. No.	BRANCH/DEGREE	TOTAL NO OF STUDENTS
01	Doctoral Degree, PhD	01

The academic procession of the convocation consisting of Registrar, Chancellor, Vice Chancellor, Guest of Honor, Academic Registrar, Court Members and Executive Council Members entered the Convocation hall at 11am. The Convocation programme started with National Anthem followed by University Anthem. As per Assam Science and Technology University Statues the Chancellor declares the Convocation open.

At the very outset, Hon'ble Vice Chancellor Prof Narendra S Chaudhari convey his sincere gratitude to Hon'ble Chancellor and His Excellency, Governor of Assam, Sjt. Gulab Chand Kataria Ji; the Guest of Honour, Shri Prafulla Ketkar ji, Editor of Organiser, an Advisory Committee member of School of Journalism, Delhi University and a renowned researcher and academicians in the field of journalism and media; esteemed members of the University Court and Executive Council of the University, Distinguished Guests, successful students and awardees. He informed that the Convocation will present degrees and medals to the successful candidates, conferring degrees to 2422 candidates (Ph.D: 01, PG: 417, UG: 1860 and Diploma: 144) and also offering 15 Gold Medals as well as 46 Topper's Certificates to the Program toppers. The journey of academic activity of the Assam Science and Technology University (ASTU) Act has been promulgated by Government of Assam in 2009. As per this act ASTU came into existence as an Affiliating University. The act has been modified in June, 2023 as "teaching, research and affiliation" university with its geographical jurisdiction being the whole state of Assam, and the mandate of the university is to provide instructions, research and extension activities in arrears of science, technology and other professional subjects. The University is currently offering 29 Undergraduate programs, 11 Post Graduate Engineering, 29 post graduate programs and 3 diploma and 13 doctoral Programs. The university has implemented the AICTE model curriculum and the UGC-CBCS model curriculum in 2018-19. A uniform curriculum for the M.Tech programs has been implemented by ASTU from the academic year 2020-21 as per the guidelines of AICTE model curriculum. Total intake capacity of students under all academic programs is about 3500. In 2022-23 & 2023-24 academic sessions; 3714 and 3163 students, registered in different academic programs. There are 193 scholars at present who are pursuing their doctoral research in the University in different professional areas. The University has a collaborative project with Curtin University, West Australia to study the gap in various academic spheres of the technical education in the state of Assam. The university also focusses on strengthening the industry-academia and community-academia relationships. A number of Memorandum of Understandings (MoU) has been executed by the University with various academic institutions and industries. ASTU signed an MoU with The People Friendship University of Russia (also known as RUDN University), Moscow, on 28th July, 2020. Within the scope of the MoU, total four (4) students are pursuing MS programs with a scholarship. ASTU is collectively working out to understand and explore the possibilities for a systematic implementation of National Education Policy 2020 (NEP-2020) for the benefit of our stakeholders, and to our society. The first phase comprehensive action plan of NEP-2020 for different UG programs has been adopted by the university from the 2023-24 session. As per NEP 2020, the university has adopted the Multiple Exit and Multiple Entry provisions for UG courses as follows;

- UG Certificate after completion of first year.
- UG Diploma after completion of second year.
- Bachelor degree after completion of third year.
- Bachelor Degree with Honours (or by Research) after completion of fourth year.

The state government of Assam has declared ASTU as a 'Teaching and Research University' in June 2023. The university is planning to establish cutting edge infrastructure for conducting multidisciplinary research- and innovation- activities with the support of the state and central governments. To create an eco-system to consider Entrepreneurship as an alternative career by the young students of higher educational institution, ASTU has proposed to Establish, Develop and Manage an Entrepreneurship Development Centre and Incubation Centre at the university campus. ASTU has already been selected as a host institute to establish an Entrepreneurship Development Centre and Incubation Centre with an aim to enable the Universities and Higher Education Institutions(HEIs) through a digital framework for planning, management, delivery, and monitoring of services for students, staff, and other stakeholders; the Ministry of Education, Govt of India has started an initiative called 'Samarth' in the year 2019. ASTU has already taken the initiative for implementing the Samarth e-Gov suite. We are happy to announce that some of our Affiliated Institutes have also conducted the admission for the academic session 2022 through Samarth. National Academic Depository (NAD) is a 24X7 online store house of all academic awards viz. certificates, diplomas, degrees, mark-sheets; duly digitized and lodged by academic institutions /boards /eligibility assessment bodies. The University has joined the NAD as per the Ministry of Education, Govt. of India guidelines. The undergraduate technological education has given you some exposure to the domain knowledge. More importantly, the university education is not to teach you exhaustively any subject, but to make capable for life-long learning. Future is uncertain; however the university education is a tool that would pursue throughout the profession career to excel in the tasks that would deal with. Above all, Hon'ble Vice Chancellor concluded his speech by of the most important things that have been taught is the value of keeping a mind open to views and perspectives that are different to those one may hold.

The graduates took a solemn pledge which was conducted by Hon'ble Chancellor of the University with the presence of all members of University court, executive council to serve the society throughout their lives in such a manner that will bring prosperity to the society with the contribution in different fields.

Degrees were conferred to 2422 no of students. Degree in absentia were also conferred by Hon'ble Chancellor.

Award of Gold Medals was conferred to 15 graduates in different fields of knowledges along with 46 Programme Topper certificate which was followed by the exhortation by the Chancellor.

The Guest of Honour Shri Prafulla Ketkar Editor, The Organizer spoke about the present context of education system in India. He particularly mentioned the role of the University in imparting technical education which is a specialized knowledge sphere to be disseminated to the society. He referred the hindrances faced by the students while going through the education system. He expressed his satisfaction on being invited to the Convocation and acknowledged his gratitude.

The Hon'ble Chancellor of ASTU Shri Gulab Chand Kataria welcome Shri Prafulla Ketkar the Guest of Honour of the fourth Convocation, Vice-Chancellor of Assam Science and Technology University Prof. Narendra S. Chaudhari, Dr Nripen Das, the Registrar of the University, the honourable members of the University Court; Members of the Executive Council and Academic Council; the Principals of the affiliated Colleges of ASTU; distinguished guests; faculty members; and other invited dignitaries, Persons from the Media and to all graduating students. At the very outset he extend his heartiest congratulations to all the degree holders. From a humble beginning to today's milestone, the University has come a long way to make a mark in to the field of technical education. Students are the flag bearers of

a University or college . The University will continue to operate with commitment and value, and encourage all to put in their efforts for the progress of the society. The University has been taking care to introduce diploma, graduate, post graduate, PhD courses in the niche areas of engineering, technology, pharmaceutical science, architecture, management etc. With the declaration of NEP 2020, University has designed the curriculum and syllabus with special focus on research and innovations leading to the industry institute interaction . The University has also capable to enrol the foreign students through its affiliated colleges and capability of creating platform for sending its graduates students to the foreign Universities like RUDN University of Russia etc. The University, as a part of implementing NEP 2020 will have to focus on education and research in technical fields with inter-disciplinary and multi-disciplinary perspectives in the ensuing days. These initiatives should include addressing of different relevant issues of the Northeast and bringing out their appropriate technical solutions to stimulate the growth and development of the region. NEP 2020 envisages imparting education in regional languages too. The University is currently coordinating the translation work of technical text-books of different subjects from English language to Assamese language under the initiative of All India Council for Technical Education, New Delhi. Technology has been a bliss in today's society. The Government of India has many schemes to motivate the bright aspiring minds to showcase their talents and get global recognition.

The Registrar ended the convocation with a vote of thanks followed by the National Anthem.

The academic procession of the convocation leaves the convocation hall.

Photos of Fourth Convocation held on 18th Dec 2023







Peer Group Visit Report

Report on the Visit of the Peer Team to Assam Science and Technology University, Guwahati

Date: 11th January, 2024

As per the instruction of the Hon'ble Governor of Assam vide letter GSA.61/2023/59 dated 6th January 2024, the peer team with the following members visited the Assam Science and Technology University on 11th January 2024, inspected all the facilities available in the University and interacted with the Faculties, Staffs and Research Scholars.

1. Dr. Bidyut C. Deka
2. Prof. J. P. Verma
3. Prof. Smriti Kumar Sinha
4. Prof. Kandarpa Das
5. Dr. Y Jayanta Singh
6. Dr. Dinesh Das
7. Smt. Geeta Kundu Chakraborty

The Assam Science and Technology University was established by Government of Assam under Assam Science & Technology University Act 2009 as affiliating university. The Assam Science and Technology University Act was amended recently as a Teaching, Research and affiliating university in the year of 2023 by Govt of Assam. Assam Engineering College (AEC) has been declared, on 19th June 2023, as constituent college vide Assam Science and Technology University (Amendment) Act 2023.

It aims to provide education and research in the field of science & technology and other professional courses in Assam. The university is responsible for academic regulation of all undergraduate and post-graduate programs in engineering and a few professional courses in science and management sectors. ASTU also conducts an in-house post-graduate course in Energy Engineering. Since its inception, ASTU has been undertaking high quality teaching and research in frontier areas of science & technology continuously upgrading the syllabi and creating environment for international standard research and emphasizing in bridging the ancient wisdom of the region with modern technology.

Physical Infrastructure:

- Land: 46 Bigha, 4 Katha 10 Lessa
- Administrative and Academic Building, Central Research Hub, Vice Chancellor residence, Examination building, Guest House, Research scholars and Staff room
- Area under occupation: 10 Bigha
- Land under development for future expansion: 36 Bigha 4 Katha 10 Lessa

Human resources:

- Vice Chancellor
- Registrar

- Academic Registrar
- Controller of Examinations
- Deputy Controller of Examinations
- And another 24 non-teaching staff
- Four guest Faculty members

Academic Department in the University: Dept of Energy Engineering

Affiliated Colleges/Institutions

- Engineering colleges: 09
- Science Colleges: 06
- Management Colleges: 01
- Agriculture/Horticulture colleges: 02
- Architecture College: 01
- R&D institutes: 01

Programmes offered:

- Undergraduate: 29
- Post Graduate: 29
- Diploma: 03
- Ph. D.: 13

Student on roll as on date:

- Undergraduate: 10167
- Post Graduate: 2122
- Diploma: 363
- Ph. D.: 193

Sl No	Parameters	Observations of the Peer Team
1	Curricular aspects as per NEP-2020/NAAC	<p>26th and 29th Academic Council of the University has approved the model framework as per the guidelines of NEP-2020 and National Credit Framework, suggested by the UGC. The action plan to implement NEP-2020 is already prepared and accordingly curriculum of Four Year UG is implemented from 2023-24.</p> <p>The Academic Council and Executive Council of ASTU has approved for the adoption of NEP 2020 and common academic calendar of the University as follows:</p> <ul style="list-style-type: none"> ❖ Odd Semester: August to December ❖ Even Semester: January to June ❖ Internship/Training: June and July ❖ Introduction of universal Human Value Courses (UHV-I & UHV-II) ❖ Winter break: December ❖ Summer break: June and July

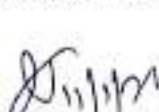
		<p><u>Progress on implementation of NEP 2020</u></p> <ul style="list-style-type: none"> Implemented course curricula as per the NEP 2020 from the academic session 2023-24 onwards. No. of students registered under ABC till date: 8590 <p><u>Engineering & Technology:</u></p> <p>As per AICTE guidelines</p> <p><u>Science Programmes</u></p> <p>As per UGC framework for FYUGP</p> <p><u>Management Programme</u></p> <p>As per UGC framework and AICTE norms</p>
2	Teaching, Learning and Evaluation including LO, CO and PO	<ul style="list-style-type: none"> As per the mandate of NEP-2020, the university has initiated the process for LO, CO and PO. Incorporation of MOOCs at ASTU <p>Total nos of students opted under MOOCs/SWAYAM: 130</p>
3	Research, Innovation and Extension facilities available	<ul style="list-style-type: none"> Research Project Completed by ASTU member as PI: 18 (Eighteen) On-going Research Project under ASTU: 04 (Four) Collaborative Research Project Completed by Affiliated colleges under ASTU: 101 (One hundred one) Research Publication in reputed national and international journals: 43 (last 4 years) Research Publication in collaborative research with ASTU: 07 (last 4 years) Patent (s) by ASTU: 01 (Design of an advanced hybrid plasma coating reactor, <i>Bharat Kakati and Dhiraj Bora, Assam Science and Technology University, Status: Granted, Design Patent Number: 343633-001, Year: 2023</i>) Extension/Outreach Activities: 15 numbers
	Infrastructure and learning Resources including ICT	<ul style="list-style-type: none"> Digital Classroom: 04 (Four) Enterprise Resource Planning (ERP) 2017-18 onwards for result declaration and examination form fill up. E-Samarth as per Govt. of Assam guideline Library with WiFi Facilities: 1286 numbers of books LAN with internet connection with NKN
	5. Student support and important achievements	<ul style="list-style-type: none"> Students Grievances Redressal System Library using UGC software (INFLIBNET) Govt Scholarships for students Available


	6. Governance, Leadership and Management	<ul style="list-style-type: none"> • Chancellor • Vice Chancellor • Court • Executive Council • Other Statutory Committees
	7. Institutional values and Best Practices	<ul style="list-style-type: none"> • Regular Convocation • Timely conduct of examination • Timely Declaration of results • Continuous revision of syllabus • Availability of Certificates in DigiLocker NAD • Antiplagiarism Software (DrillBit) • Grievance Redressal Cell
	8. Indian Knowledge System (IKS), Viksit Bharat@2047	<ul style="list-style-type: none"> • Programme development is in process. • The representatives of Assam Science and Technology University joined the ViksitBharat@2047 event, conducted by Raj Bhavan Assam on 11th December, 2023 at IIT-Guwahati. • To fulfil the vision of the Hon'ble prime Minister of India, Assam Science and Technology University has already established a ViksitBharat@2047 Cell to make India as developed country by 2047 by engaging the students to suggest their ideas for the development of the country. • Apart from that the university has circulated a notification to form the ViksitBharat @2047 Cell at all the affiliated institutes/Colleges and requested to the principals of affiliated colleges to take part the competition for Viskit Bharat @2047. •
	9. Internationalization	<ul style="list-style-type: none"> • Signed MoU with International Universities like (1) RUDN Universities, Moscow, (2) CURTIN University, West Australia, (3) North-South University, Dhaka • Joint research project with CURTIN University, West Australia (In process)

		<ul style="list-style-type: none"> Joint research project with CURTIN University, West Australia (In process)
	10. Faculty Improvement Program	<ul style="list-style-type: none"> University does not have any regular faculty member
	11. Strategies Faculty Selection Process	<ul style="list-style-type: none"> As per UGC/AICTE and Govt of Assam norms
	12. National Credit Framework NCF, including skill and vocationalization UGC notification dated 27 th December, 2023	<p>Four Year Undergraduate Programmes as per NCF guidelines in the following programmes:</p> <ul style="list-style-type: none"> Physics Chemistry Mathematics Biotechnology Food, Nutrition and Dietetics Interior Design Information Technology

Salient Observations and Recommendations:

1. Despite lot of limitations, the University has been implementing its activities as per the mandates of the Act, Statutes and Ordinances.
2. The University has been maintaining an academic department from its own resources and offering M.Tech and PhD degrees in Energy Engineering. The department has total 43 publications in reputed national and international journals including one patent.
3. The university has established a Central Research Hub (CRH) facility with the help of external funding.
4. The peer team recommends for sanction of adequate number of faculties required for UGC 12B and NAAC accreditation.
5. The land (36 bigha) proposed to be utilised needs adequate funding for land development and construction of boundary wall so as to stop the encroachment.
6. For academic expansion, adequate grant may be approved.


(Bidyut C. Deka)


(J. P. Verma)


(Smriti Kumar Sinha)


(Kaadappa Das)


(Y Jayanta Singh)


(Dinesh Das)


(Geeta K. Chakraborty)

Peer Group Visit Photographs



Examination Report

The Examination Department of Assam Science and Technology University is governed by the Examination Ordinance of the University and as per the guidelines of University Grants Commission (UGC), All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), Council of Architecture (CoA).

At the end of each semester of a programme, students' performance is assessed through End Semester Examination (ESE), which is centrally conducted by the University. Besides ESE, students' performance is regularly assessed by the concerned Institutions, through various Continuous Evaluation process in the classrooms throughout the semester.

The examination system of university is fully automatized through University ERP system. After completion of entire evaluation and scrutiny process the results are processed through the software program and the results of examinations are declared as per the schedule mentioned in the Academic Calendar of the University.

The University is uploading the Certificate data of students in National Academic Depository (NAD) through DigiLocker platform. Till now University has uploaded 5484 nos. of certificate data of the eligible candidates which are available on DigiLocker NAD.

The University has registered with Academic Bank of Credits (ABC) in the year 2022 to join the digital initiative of publishing all the academic awards digitally for the seamless sharing and exchange of data among various academic institutions across domains. At present more than 9000 students of the university have registered in ABC

The university is successfully conducting various state level entrance examinations (OMR based) viz. Combined Entrance Examination (CEE) for admission in to 1st semester of B.Tech programmes, Joint Lateral Entry Examination (JLEE), for admission to 3rd semester B. Tech. Programmes, Joint MCA Entrance Examination (JMEE), for admission to 1st semester MCA Programme, as per the authorization of Govt. of Assam since 2018. The number of candidates appeared in CEE-2023, JLEE-2023 and JMEE-2023 were respectively- 7548, 1824, 397, respectively. Also, university has successfully conducted various entrusted state level recruitment examinations, through Computer Based Test (CBT) or Optical Mark Recognition (OMR).

Sl.No.	Name of the Examination	Appeared	Passed	Pass %
1	B.Tech 2 nd Semester Examination	2328	1130	48.54
2	B.Tech 4 th Semester Examination	2706	1598	59.05
3	B.Tech 6 th Semester Examination	2292	1642	71.64
4	B.Tech 8 th Semester Examination	1516	1407	92.81
5	B.Arch 2 nd Semester Examination	23	05	21.74
6	B.Arch 4 th Semester Examination	42	11	26.19
7	B.Arch 6 th Semester Examination	35	12	34.29
8	B.Arch 8 th Semester Examination	31	15	48.39

Sl.No.	Name of the Examination	Appeared	Passed	Pass %
9	B.Arch 10 th Semester Examination	24	24	100.00
10	B.Pharm 1 st Semester Examination	171	74	43.27
11	B.Pharm 2 nd Semester Examination	305	188	61.64
12	B.Pharm 3 rd Semester Examination	81	49	60.49
13	B.Pharm 4 th Semester Examination	358	255	71.23
14	B.Pharm 6 th Semester Examination	339	256	75.52
15	B.Pharm 8 th Semester Examination	284	269	94.72
16	M.Pharm 1 st Semester Examination	07	05	71.43
17	M.Pharm 2 nd Semester Examination	41	37	90.24
18	M.Pharm 3 rd Semester Examination	04	04	100.00
19	M.Pharm 4 th Semester Examination	40	40	100.00
20	M.Plan 2 nd Semester Examination	06	05	83.33
21	M.Plan 4 TH Semester Examination	09	07	77.78
22	M.Tech 2 nd Semester Examination	101	72	71.29
23	M.Tech 4 th Semester Examination	91	84	92.31
24	MCA 2 nd Semester Examination	98	70	71.43
25	MCA 4 th Semester Examination	81	55	67.90
26	M.Voc 2 nd Semester Examination	05	02	40.00
27	B.E 8 TH Semester Examination	03	02	66.67
28	M.E 4 th Semester Examination	01	01	100.00
29	B.Sc 2 nd Semester Examination	146	83	56.85
30	B.Sc 4 th Semester Examination	172	107	62.21
31	B.Sc 6 th Semester Examination	135	121	89.63
32	BBA 2 nd Semester Examination	40	21	52.50
33	BBA 4 th Semester Examination	43	30	69.77
34	BBA 6 th Semester Examination	30	27	90.00
34	BCA 2 nd Semester Examination	88	53	60.23
35	BCA 4 th Semester Examination	99	52	52.53
36	BCA 6 th Semester Examination	64	57	89.06
37	BTM 4 th Semester Examination	03	02	66.67

Sl.No.	Name of the Examination	Appeared	Passed	Pass %
38	BTM 6 th Semester Examination	03	03	100.00
39	D.Pharm part 1 Examination	205	97	47.32
40	D.Pharm part 2 Examination	153	100	65.36
41	M.Sc 2 nd Semester Examination	216	181	83.80
42	M.Sc 4 th Semester Examination	182	158	86.81
43	Integrated M.Sc 2 nd Semester	01	01	100.00
44	Integrated M.Sc 4 th Semester	01	01	100.00
45	Integrated M.Sc 6 th Semester	07	07	100.00
46	MBA 2 nd Semester Examination	52	35	67.31
47	MBA 4 th Semester Examination	31	31	100.00
48	MBA trimester 2 nd Semester	01	01	100.00
49	MBA trimester 3 rd Semester	39	39	100.00
50	MBA trimester 6 th Semester	39	39	100.00
51	B.Pharm (Practice) 1 st Semester Exam	57	55	96.49
52	B.Pharm (Practice) 2 nd Semester Exam	06	06	100.00

FINANCIAL REPORTING 2023-2024

(A) Budget Reporting

The Financial estimates and the Revised Estimates (Budget) for both **Part-I(Revenue)** and **Part-II (Capital)** for the Financial Year 2023-2024 have been placed for its approval

Particulars	Part – I: Revenue				Part – II: Capital			
	Actual 2021-22	Estimates 2022-23	Revised Estimates 2022-23	Estimates 2023-24	Actual 2021-22	Estimates 2022-23	Revised Estimates 2022-23	Estimates 2023-24
Total Receipt	8,70,07,552.22	7,41,75,573.00	8,88,45,150.00	10,71,33,304.00	3,18,30,946.00	14,45,18,327.00	14,54,62,200.00	38,83,07,983.00
Total Payment	7,09,38,800.98	6,35,64,148.00	7,57,62,204.00	8,79,96,444.00	3,92,66,912.22	18,35,29,706.00	17,69,07,263.65	43,80,76,380.00
Surplus (+) / Deficit (-)	1,60,68,751.24	1,05,91,425.00	1,30,82,946.00	1,91,36,860.00	-74,55,966.22	-3,90,81,379.00	-3,14,25,063.65	-4,77,68,399.00

Particulars	Part – III: Earmarked (Special) Fund				Part – IV: Debts, Deposit & Advance			
	Actual 2021-22	Estimates 2022-23	Revised Estimates 2022-23	Estimates 2023-24	Actual 2021-22	Estimates 2022-23	Revised Estimates 2022-23	Estimates 2023-24
Total Receipt	0.00	30,75,000.00	33,30,460.00	31,33,460.00	3,41,99,910.00	1,43,76,000.00	3,64,31,500.00	4,26,57,322.00
Total Payment	0.00	16,75,488.00	8,31,042.50	50,97,443.00	3,11,64,004.00	2,97,45,650.00	5,71,34,303.00	4,06,95,280.00
Surplus (+) / Deficit (-)	0.00	15,99,512.00	31,99,417.50	58,023.00	30,35,026.00	-1,48,65,650.00	-2,07,02,803.00	18,04,042.00

(B) Preparation and Audit of Annual Accounts (For The Financial Year 01.04.2022-31.03.2023)

1. Preparation of Annual Accounts:

The financial statement has been prepared and completed for the financial year 2022-2023. The brief status of the financial statements are as follows:

a) Govt. Funding		
Income	Expenditure	Excess of Income over expenditure
Rs 3,78,30,348.00	Rs 5,11,86,437.32	(-) Rs 1,55,00,889.32
b) Own sources Examination (conduct of internal examination)		
Income	Expenditure	Excess of Income over expenditure
Rs 5,29,89,878.42	Rs 3,35,05,608.92	Rs 1,94,84,269.50
c) Project Consultancy (other than the internal examination)		
Income	Expenditure	Excess of Income over expenditure
Rs 2,00,31,003.00	Rs 73,43,975.57	Rs 1,26,87,027.43

Income & Expenditure Account for the year ended on 31st March, 2023 (GENERAL)

Case P.03

Income & Expenditure Account for the year ended on 31st March, 2023 (GENERAL)

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At times of our report of even date

(CA Harsh Agarwal)
Partner
Membership No.: 318
Date: 18/10/2023
Place: Gurukul

Finance & Accounts Officer
ASTU, Guwahati
Phone & Email: 0361-2534000
Email: astu@astu.ac.in


Elhadloy
We Charge
Armed Forces of America

Registrar
ASTU, Gurwahati

Income & Expenditure Account for the year ended on 31st March, 2023 (EXAMINATION)

Expenditure	Amount (₹)	Amount (₹)	Income	Amount (₹)	Amount (₹)
Direct Expenditure:			Direct Income:		
Annual Membership Fees	59,080.00		Additional Fee (Registration Fee)	14,000.00	
Concession	57,65,285.00		Admission Fee For ADP	1,56,800.00	
Examination Centre Expenses	95,67,125.00		Admission Fees (M. Tech Energy Engg)	2,41,300.00	
Examination Expenditure	1,100.00		Admission Fees Ph.D	57,400.00	
Exam Software	1,32,000.00		Affiliation Fee	2,30,000.00	
Inspection For Affiliation	21,302.00		Affiliation Fee (Renewal)	5,60,000.00	
M.Tech (Project) Energy Engg	3,000.00		Application Fee For Affiliation	1,15,000.00	
Ph.D Admission Process	2,93,041.00		Application Fee For Ph.D	12,000.00	
Ph. D Course Expenditure	78,888.00		Branch Change Fees	25,000.00	
Ph.D Viva Voce	16,888.00		Convocation Registration Fee	42,95,950.00	
Remuneration For Re-Evaluation	13,500.00		Duplicate Grade Card	23,575.00	
Remuneration To Examiner	26,10,515.00		Duplicate Registration Fees	76,875.00	
Remuneration To Moderator	68,713.00		Educational Verification Fee	14,900.00	
Remuneration To M.Tech(Energy Engg) Investigator	2,255.00		Enrolment Fee	28,75,300.00	
Remuneration To Paper Setter	11,98,089.00		Enrolment Fee (M. Tech Energy Engg)	1,700.00	
Remuneration To Ph.D Examiner	89,543.00		Enrolment Fees(Ph.D)	29,000.00	
Student Sports And Cultural Meet	1,24,840.00		Examination Fees	2,02,46,200.00	
Workshop Fees/ Laboratory Fees (M.Tech.Energy Eng.)	1,390.00	2,10,28,445.00	Examination Fees (M.Tech.Energy Engg)	63,000.00	
Indirect Expenditure:			Form Fee	3,82,700.00	
Advertisement & Publicity	8,68,241.00		Grade Card Fee	3,850.00	
AMC (Computer Etc.)	15,849.00		Inter Sponsorship	6,35,253.00	
Annual Ritual & Customary Celebrations	57,810.00		Institute Recognition Fees	2,08,000.00	
Bank Charge (Exam A/C)	3,767.52		Laboratory Fees	3,400.00	
Beautification Of Campus	10,148.00		Late Fine	4,30,600.00	
Books, Newspaper & Periodicals	8,239.00		Late Fine(M.Tech)	600.00	
Cleaning & Sweeping	2,35,351.00		Migration Certificate	7,82,900.00	
Consultancy Fees	30,890.00		Name Correction Fee	35,100.00	
Depreciation	9,45,381.00		Non Collegiate Fees	6,61,580.00	
			OMR Sheet Fee	3,600.00	


Examinations Officer
Assam Institute of Technology & Management
Guwahati


Registrar
Assam Institute of Technology & Management
Guwahati


Vice-Chancellor
Assam Institute of Technology & Management
Guwahati



Income & Expenditure Account for the year ended on 31st March, 2023 (EXAMINATION)

Part II

Donation	3,800.00	Donation/Volunteering And Misc Charges(Affiliation)	76,000.00	
Donation/Endowment Fund	10,800.00	Original Certificate Fee	5,78,500.00	
Exam Project Recruitment Exp.	57,260.00	Permission Fee	4,98,000.00	
Ex-Gratia	1,35,800.00	Processing Fees For Affiliation	50,000.00	
Fuel Cost For Office Vehicle	20,205.00	Provisional Certificate Fees	26,19,000.00	
Fuel Cost For Registrar Vehicle	20,894.00	Re-Evaluation Fees	12,82,115.00	
Fuel Cost For Vca Vehicle	42,543.00	Re-Evaluation (Ph.D)	12,000.00	
Fuel For Dg Set	17,668.00	Registration Fee For Research Work Ph.D	30,000.00	
Insurance Charge (Vca Vehicle)	10,814.00	Registration Fees	29,70,350.00	
Kitchen Utensils	7,282.00	Registration Form Fee Ph.D	90,000.00	
Legal And Professional Fees	5,00,000.00	Registration On Guides For Ph.D	12,000.00	
Medical Facility Exp.	17,29,092.00	Semester Fee For Adh	25,500.00	
Misc. Meeting	1,85,267.00	Semester Fees (M.Tech Energy Engg)	10,26,000.00	
Misc Computer & Peripherals	77,696.00	Semester Fees Ph.D	1,87,896.00	
Misc. Repairs & Maintenance	83,434.00	Transcript Fees	1,12,000.00	4,98,91,148.00
Outsourcing	58,356.00	Indirect Income:		
Postage & Telegram	23,207.00	Application Fees For Tender	1,000.00	
Printing & Stationery	54,67,753.00	Bank Interest Exam A/C	2,29,247.64	
Recruitment Expenditure	4,540.00	Exam Project Recruitment Test	5,00,000.00	
Remuneration For Recruitment Test	2,800.00	Interest On Investment	22,72,245.00	
Repair & Maintenance Office Equipment	97,523.00	Interest On TDS	18,965.78	
Repairs & Maintenance Ac	76,713.00	Misc Fees & Fine Received	97.00	
Repairs & Maintenance (Computer & Sdp)	65,753.00	Misc Receipts	25,862.00	
Repairs & Maintenance Electrical	37,209.00	Penalty	53,313.00	
Repairs & Maintenance Of Office Vehicle	27,826.00	RTI Fees	88.00	30,98,730.42
Reporting Of Vca Car	38,545.00			
Scholarship & Compensation Works	15,924.00			
Special Duty Allowance	44,100.00			
Sponsorship For Seminar, Workshop Etc.	3,500.00			
Staff Recruitment	45,931.00			


Examinations Officer
Assam Institute of Technology & Management
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Registrar
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Guwahati


Vice-Chancellor
Assam Institute of Technology & Management
Guwahati



TETULIA ROAD, JALUKBARI
GUWAHATI - 781013

Income & Expenditure Account for the year ended on 31st March, 2023 (EXAMINATION)

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Staff Welfare	3,49,614.00			
Telephone Directory	4,17,313.00			
Travelling & Conveyance	5,38,562.00			
VCs Contingencies	1,30,859.00			
Video Conference Subscription	1,00,893.00			
Wages & Labour Charges	6,890.00			
Website Development & Maintenance	5,500.00	1,24,77,163.92		
Excess of Income over Expenditure (Trsf. To Balance Sheet)		1,94,96,269.50		
		5,29,69,878.42		5,29,69,878.42

In terms of our report of even date,
For, R. M. Kothari & Co.,
Chartered Accountants
FIRN: 000143C



(CA Harsh Agarwal)
Partner
Membership No.: 315605
Date: 18/10/2023
Place: Guwahati

Finance & Accounts Officer
ASTU, Guwahati
Finance & Accounts Officer
ASTU, Guwahati

Registrar
ASTU, Guwahati
Registrar
ASTU, Guwahati

Registrar
ASTU, Guwahati
Registrar
ASTU, Guwahati

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TETULIA ROAD, JALUKBARI
GUWAHATI - 781013

Income & Expenditure Account for the year ended on 31st March, 2023 (PROJECT CONSULTANCY)

Expenditure	Amount (₹)	Amount (₹)	Income	Amount (₹)	Amount (₹)
Direct Expenditures:			Direct Income:		
CBE Expenditure	88,68,451.00		CBE Fees	1,32,04,550.00	
JLEE/JMEE Expenditure	18,79,838.00	67,29,268.00	JLEE/JMEE Fees	24,31,000.00	
Indirect Expenditures:			Provisional Answer Key Challenge Fees	4,900.00	1,45,40,852.00
Bank Charges	25,091.57		Indirect Income:		
Advertisement & Publicity Expenditure	1,75,000.00		Tender Fees	3,000.00	
Recruitment Expenditure ASRB	3,200.00		Bank Interest	1,38,553.00	
Recruitment Expenditure APDCL	51,415.00		Interest on TDR	96,351.00	
Recruitment Expenditure WRD	3,58,060.00	6,04,706.57	Misc. Receipts	3,900.00	
Excess of Income over Expenditure (Trsf. To Balance Sheet)		1,28,87,027.43	Recruitment Test WRD	11,56,400.00	
		2,00,35,000.00	Recruitment Test APDCL	48,99,799.00	54,90,153.00
					2,00,31,803.00

In terms of our report of even date,
For, R. M. Kothari & Co.,
Chartered Accountants
FIRN: 000143C



(CA Harsh Agarwal)
Partner
Membership No.: 315605
Date: 18/10/2023
Place: Guwahati

Finance & Accounts Officer
ASTU, Guwahati
Finance & Accounts Officer
ASTU, Guwahati

Registrar
ASTU, Guwahati
Registrar
ASTU, Guwahati

Registrar
ASTU, Guwahati
Registrar
ASTU, Guwahati

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2. Audit of Annual Accounts:

As per clause 30 of the Assam Science and Technology University Act, 2009, the financial statement of accounts of every completed financial year shall be placed for consideration of the Court together with the Audit Report in the next year. For this purpose, the account shall be audited by a firm of chartered accountants subject to overall audit scrutiny by the Accountant General, Assam.

As such the financial statement has been prepared and Statutory Audit has been done by the chartered accountant M/s R.M Kothari & Co. appointed by the University Executive Council. The overall audit scrutiny of financial statement has been completed by the Accountant General (Assam) up to the financial year 2021-22.

Affiliated Institutes under ASTU

NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY, DIBRUGARH EXTENSION CENTRE, Dibrugarh
NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY, JORHAT EXTENSION CENTRE, ROWRAH JORHAT
NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY, KOKRAJHAR EXTENSION CENTRE, KOKRAJHAR
NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY, TEZPUR EXTENSION CENTRE, Tezpur
DAFFODIL COLLEGE OF AGRICULTURE AND TECHNOLOGY, GUWAHATI
Seva Bharati Institute of Fire, Safety and Disaster Management , North Guwahati
DAFFODIL COLLEGE OF HORTICULTURE, GUWAHATI
Dona International Institute of Assam , Guwahati
National Institute of Electronics and Information Technology, Guwahati
Tocklai Tea Research Institute, Jorhat
Silapathar Science College, Silapathar

Dibrugarh Hanumanbax Surajmall Kanoi College, Dibrugarh
Daffodil College of Agriculture, Vidyanagar, Khetri
NORTH EAST INSTITUTE OF MANAGEMENT SCIENCE (NEIMS), JORHAT
Dhemaji Engineering College, Dhemaji
Girijananda Chowdhury Institute of Pharmaceutical Science, Tezpur
C.T.COLLEGE, TINSUKIA
Rahman Institute of Pharmaceutical Sciences and Research, Guwahati
Pub Kamrup College, Guwahati
North Eastern Regional Institute of Water and Land Management, Tezpur
Golaghat Engineering College, Golaghat
Pratiksha Institute of Pharmaceutical Sciences, Guwahati
Scholars Institute of Technology and Management, Guwahati
Barak Valley Engineering College, Karimganj
NERIM, Mangaldoi
NERIM, Guwahati
Netes Institute of Pharmaceutical Science, Mirza
Assam Institute of Management, Guwahati
Guwahati College of Architecture and Planning, Azara
Bineswar Brahma Engineering College, Kokrajhar

Jorhat Institute of Science & Technology, Jorhat
Jorhat Engineering College, Jorhat
Assam Engineering College, Guwahati
Girijananda Chowdhury Institute of Pharmaceutical Science, Guwahati
Girijananda Chowdhury Institute of Management and Technology, Azara
Netes Institute of Technology and Science, Mirza

Photo Gallery

Celebration of International Women's Day 2024 at ASTU



Celebration of 75th Republic Day, 2024 at ASTU Campus



Celebration of Constitution Day, 2023



Visit of the Hon'ble Education Minister Dr. Ranoj Pegu



Celebration of Shramdaan for Swachhata at ASTU



77th Independence Day Celebration at ASTU



ASTU Fourth Convocation



ASTU Third Convocation



Achievement of Students



**ইজবাইলৰ প্ৰযুক্তি উৎসৱলৈ
অসমৰ ৩ শিক্ষাৰ্থী**

গুৱাহাটী, ২০ জুন : ইজবাইলৰ বৃহত্তম অভিযান্ত্ৰিক আৰু প্ৰযুক্তি মহাবিদ্যালয় 'চামন প্ৰযুক্তি কলেজ'ৰ উদ্যোগত আয়োজিত 'প্ৰযুক্তি উৎসৱ-২০'লৈ ক্ষেত্ৰীৰ ডেফ'ডিল হাটিকালচাব মহাবিদ্যালয়ৰ দুজন ছাত্ৰ আৰু এগৰাকী ছাত্ৰী নিৰ্বাচিত হৈছে। অসম বিজ্ঞান আৰু প্ৰযুক্তিবিদ্যা বিশ্ববিদ্যালয়ৰ অধীনৰ অসমৰ একমাত্ৰ বেচৰকাৰী ঋণৰ উদ্যানশাস্য মহাবিদ্যালয়ৰ এই সাফল্যই অঞ্চলবাসীক গৌৰৱান্বিত কৰিছে। তিনিওগৰাকী শিক্ষাৰ্থীয়ে উন্নত প্ৰযুক্তিৰ কৰ্মশালা, প্ৰদৰ্শনী, প্ৰকল্প প্ৰদ্ব্তি আৰু হেকাথন সন্দৰ্ভ বিভিন্ন দেশৰ শিক্ষাৰ্থীৰ সৈতে অংশগ্ৰহণ কৰিছে। ১৮ জুনত আৰম্ভ হোৱা এই কৰ্মশালা তথা উৎসৱ ২২ জুনলৈকে চলিব। উল্লেখযোগ্য যে আই আই টি গুৱাহাটীৰ অধ্যাপক অমৰেন্দ্ৰ দাসৰ নেতৃত্বত অসমৰ দলটো ইজবাইললৈ গৈছে। ডেফ'ডিল হাটিকালচাব মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰী কেইগৰাকীয়ে ইজবাইলৰ অত্যাধুনিক প্ৰযুক্তি কৌশল যেনে খাদ্য-সংসাধন আৰু সংৰক্ষণ, জলসিঞ্চন, কৃষি অভিযান্ত্ৰিক আহিলাৰ প্ৰয়োগ আদিৰ সৈতে পৰিচিত হৈ অসমৰ উদ্যান শাস্য বিকাশৰ ক্ষেত্ৰত অৰিহণা যোগাব পাৰিব। ডেফ'ডিল মহাবিদ্যালয়ৰ পৰা অংশগ্ৰহণৰ বাবে ইজবাইললৈ যোৱা ছাত্ৰ-ছাত্ৰীসকল হ'ল চিন্ময়জ্যোতি শৰ্মা, কুমাৰী অনুৰূতা শৰ্মা আৰু প্ৰত্যাং গোস্বামী।।

Celebration of 9th International Yoga Day, 2023 at ASTU Campus



Celebration of World Environment Day 2023 in ASTU



ASTU TEAM at Int'l Conference



ASTU Officials with all staff members



Front Row (1st Row) (from left): Ms. Mamoni Begum, Mrs. Hemashree Das, Dr. Nripen Das, Prof. Narendra Chaudhari (Vice Chancellor), Mrs. Swati Chaudhari, Mrs. Tapashi kalita, Mrs. Pingki Sarma, Mrs. Sabita Deka, Mr. Sisam Raj Chakraborty

2nd Row (from left): Mrs. Manju Thakuria, Mrs. Neelanjana Choudhury, Mrs. Purabi Kalita, Ms. Sukanya Pathak, Mrs. Pranita Deka, Ms. Susmita Sarma, Ms. Bandita Das, Ms. Chabiron Necha

3rd Row (from left) : Mr. Diganta Ojah, Dr. Indranil Chanda, Mr. Swmdwn Brahma, Mr. Sanjiv Baishya, Dr. Amitabha Baruah, Mr. Bitopan Talukdar, Mr. Ishanku Buragohain, Mr. Siddhartha Mazumdar, Dr. Debajyoti Goswami, Mr. Chandan Bhattacharya, Mr. Naba Kumar Baishya, Mr. Maharnav Bhattacharya

at Entrepreneurship Development Centre and Incubation Centre Assam Science and
Technology University, Guwahati-13, Assam



Faculty Development Program on Entrepreneurship Development

