



ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

ANNUAL REPORT

2019-2020

The Assam Science and Technology University (ASTU) was on 4th January, 2010 by the “Assam Science and Technology University Act, 2009” and notified by the Government of Assam vide its letter dated 26th February, 2010 to come into force with immediate effect. Jurisdiction of the university is whole state of Assam under the Union Government of India. The university provides for instruction and research through its affiliated colleges and institutions, in science and technology and other professional subjects and in other spheres of learning and knowledge. The university can be reached at www.astu.ac.in.

The University started with its academic activities from 2013 onwards. At present there are 28 colleges affiliated to the university including all the government engineering colleges.

REPORT OF THE ACADEMIC SECTION :

The annual report of the university is presented to Hon’ble members of the court for kind approval.

Academic activities

The university is preparing academic programmes for the benefit of the student community of the university. The university have different UG, PG and doctoral program in various disciplines of engineering, technology, science, management, pharmacy, architecture, design, planning etc.

i.	Total Under-Graduate Engineering Courses	: 11
ii.	Total Post-Graduate Engineering Courses	: 14
iii.	Other Under-Graduate Courses	: 16
iv.	Other Post-Graduate Courses	: 19
v.	Diploma Courses	: 01
vi.	Post Graduate Diploma	: 01
vii.	Doctoral programme	: 11

I. Curriculum Revision for Undergraduate Engineering Programmes

The University is conducting meetings of the Board of Studies (BOS) at regular interval to revise the course curriculum and syllabus of different courses in Engineering.

The total number meetings of Board of Studies (BOS) held during 2019-2020 = **16 nos.**

Total number of Industry Consultative Committee (ICC) meeting with Industry experts held during 2019-2020 = **1 no.**

Total number of the syllabi of B. Tech courses are finalized during 2019-2020 = **10 nos**

II. Recognition of Research Guides/Co-Guides :

The University Research Committee (URC) in its 11th meeting held on 26/05/2020 approved 15 forms of faculty members of its affiliating colleges who fulfill ASTU/UGC criteria for research guide ship leading to total of 172 nos. of research guides/ co guides in the university.

III. Status of Ph.D Research:

There are 111 scholars at present who are perusing their doctoral research under the university in the fields of engineering, pharmaceutical science, and management. 05 (five) nos. of candidate have been awarded with Ph.D. by the university.

- | | |
|-------------------------|--------------------|
| 1. Dr. Ranjan Kalita | Mathematics |
| 2. Dr. Papari Nayak | Management |
| 3. Dr. Banajit Sarmah | Mathematics |
| 4. Dr. Hirak Ranjan Das | Energy Engineering |
| 5. Dr. Nandini Borah | Management |

IV. Curriculum Revision for Undergraduate Engineering Programmes

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Total number of Industry Consultative Committee (ICC) meeting with Industry experts held during 2019-2020 = **1 no.**

Total number of the syllabi of B. Tech courses are finalized during 2019-2020 = **10 nos.**

V. Curriculum Revision for Postgraduate Engineering Programmes

The University has decided to adopt uniform course curriculum for all its M. Tech programmes viz. Civil Engineering, Mechanical Engineering, Electrical Engineering, Water Resources Management and Thermal and Fluid Engineering in the respective BOS meeting based on AICTE Model Curriculum and Syllabi for PG programmes published in 2018. This revised course curriculum and syllabi were implemented from academic session 2020-2021.

VI. Curriculum Revision for other UG and PG Programmes

The syllabi of following courses are finalized :

- i) B.Sc. honours in Physics.
- ii) B.Sc. honours in Chemistry
- iii) B.Sc. honours in Mathematics
- iv) B.Sc. honours in Zoology
- v) B.Sc. in Information Technology
- vi) M.Sc. in Physics
- vii) M.Sc. in Chemistry
- viii) M.Sc. in Mathematics
- ix) M.Sc. in Zoology
- x) MBA-Semester mode
- xi) MBA –Trimester mode
- xii) MCA
- xiii) BBA
- xiv) BCA

VII) Affiliation to Colleges and Institutions

There are 28 colleges/institutions under the affiliation of Assam Science and Technology. It includes all government engineering colleges of Assam, and one central government institution (NERIWALM, Tezpur). Few more government and private institutions are likely to join under ASTU affiliation. Following are the number of colleges along with their affiliated program with intake capacity which have joined:

Colleges and academic Programmes affiliated to ASTU, Guwahati after 01/01/2019

Sl No.	College/ Institution along with Name of the Principal and Address	Order No. and Date of affiliation	Affiliated Program	Intake
1	North East Institute of Management and Science (NEIMS), Jorhat	ASTU/AR-19/AFF/NEIMS/10/7884 dated 08/06/2020	Master of Social Work (MSW)	30
		ASTU/AR-19/AFF/NEIMS/10/7899 dated 08/06/2020	Bachelor of Tourism Management (BTM)	60
		ASTU/AR-19/AFF/NEIMS/10/7891 dated 08/06/2020	Master of Tourism Management (BTM)	30

Sl No.	College/ Institution along with Name of the Principal and Address	Order No. and Date of affiliation	Affiliated Program	Intake
2	CT College, Tinsukia	ASTU/AR-19/AFF/CT/30/7913 dated 09/06/2020	Bachelor of Business Administration (BBA)	30
		ASTU/AR-19/AFF/CT/30/7920 dated 09/06/2020	Bachelor of Computer Application (BCA)	20
3	Silapathar Science College, Silapathar	ASTU/AR-19/AFF/SILAP/41/7927 dated 09/06/2020	M. Sc in Botany	25
		ASTU/AR-19/AFF/SILAP/41/7906 dated 09/06/2020	M. Sc in Zoology	15
4	Pub Kamrup College, Baihata Chariali	ASTU/AR-19/PUB/M.Voc/32/8030 dated 12/06/2020	M. Voc in Food Processing and Quality Management	15
		ASTU/AR-19/PUB/M.Voc/32/8023 dated 12/06/2020	M. Voc in software Development and System Administration	30
		ASTU/AR-19/PUB/Zoology/33/8015 dated 12/06/2020	M. Sc in Zoology	20
		ASTU/AR-19/AFF/PUB-KAM/21/2845 dated 29/07/2019	M. Sc in Physics	22
		ASTU/AR-19/AFF/PUB-KAM/21/4089 dated 12/09/2019	M. Sc in Computer Science	30
5	Girijananda Institute of Pharmaceutical Sciences, Azara	ASTU/AR-19/AFF/GIPS/B.Pharm (P)/09/5947 dated 06/12/2019	Bachelor of Pharmacy (Practice)	40
		ASTU/Academic/Affiliation-GIPS-A-M.Pharma/2020/111 dated 12/09/2020	M. Pharma (Pharmacology)	15

Sl No.	College/ Institution along with Name of the Principal and Address	Order No. and Date of affiliation	Affiliated Program	Intake
		ASTU/Academic/Affiliation-GIPS-A-M.Pharma/2020/111 dated 12/09/2020	M. Pharma (Pharmaceutical Chemistry)	15
6	Girijananda Institute of Pharmaceutical Sciences, Tezpur	ASTU/Academic/AFF/GIPS-T.Pharma2020/133	D. Pharma	60
		ASTU/Academic/AFF/GIPS-T.Pharma2020/133	M. Pharma	60
7	Daffodil College of Horticulture, Khetri	ASTU/AR-19/AFF/DAF/02/8525 dtd. 10.08.2020	B.Sc. (Horticulture)	60
8	National Institute of Electronics and Information Technology (NIELIT)	ASTU/Academic/AFF/NIELIT/2020/124/8599 dtd. 12.08.2020.	BCA	40
		ASTU/Academic/AFF/NIELIT/2020/124/8606 dtd. 12.08.2020.	M.Sc. (Computer Science)	20

VIII) Status of Academic Programmes

Academic programmes under ASTU at various level are as follows:

- i. Undergraduate Engineering programmes : 11
- ii. Post Graduate Engineering programmes : 14
- iii. Other Undergraduate programmes : 15
- iv. Other Postgraduate programmes : 19
- v. Diploma programmes : 01
- vi. PG Diploma programmes : 01
- vii. Doctoral Programmes : 11

IX) Student Intake Capacity and Enrolment

The total intake capacity of student under all academic programmes under ASTU is about 4400 annually.

However, the actual registered students are as below:

ENROLMENT OF STUDENTS YEAR WISE:

Academic Session	2016-17	2017-18	2018-19	2019-20
Total No of Students	1087	1933	2850	2664

ENROLMENT OF STUDENTS FOR ACADEMIC SESSION 2019-20

Total Registration : 2664

Female : 727 , Male : 1926

Course Wise Registration Chart for the Session 2019-20

SL	Course	Enrollment
1	B. Arch	11
2	B. Des (only lateral entry)	6
3	B. Pharm	302
4	B. Pharm (Practice)	23
5	B.Sc in Computer Science	6
6	B.Sc. in Applied Physics	6
7	B.Sc. in Chemistry	34
8	B.Sc. in Information Technology	59
9	B.Sc. in Mathematics	21
10	B.Sc. in Physics	36
11	B.Sc. in Zoology	20
12	B.Tech	1503
13	BBA	14
14	BCA	42
15	D. Pharm	118
16	M. Pharm	15

17	M. Plan	14
18	M.Sc in Chemistry	20
19	M.Sc in Mathematics	29
20	M.Sc in Physics	46
21	M.Sc in Zoology	12
22	M.Sc. in Applied Physics	6
23	M.Sc. in Computer Science	9
24	M.Tech	101
25	MBA	52
26	MBA Trimester Mode	67
27	MCA	81
28	Ph.D	11

X) Academic Council Meeting:

The following Academic Council meeting were held from the last Court meeting:

1. 20th Meeting of Academic Council held on 05/02/2019
2. 21st Meeting of Academic Council held on 27/09/2019
3. 22nd Meeting of Academic Council held on 18/06/2020

XI) Admission of International students through Indian Council of Cultural Relations (ICCR) under ASTU affiliated Colleges:

The University is in receipt of applications from international students for admission to various undergraduate, graduate and doctoral programme through various scholarship schemes of Indian Council of Cultural Relations (ICCR). During the year 2019, following four (4) foreign nationals have been admitted in one of our affiliated college i.e. Scholars Institute of Technology and Management.

1. Mr. Mohammad Osman Safi, Afghanistan National
2. Mr. Adi Taufan Lalabalavu, Fiji National
3. Mr. Doreen Arual Aboi Akucbeny, South Sudan National
4. Mr. Moeketsi Marcellinus Mabula, Lesotho National

For the academic session 2020-21 also, a total of 54 applications have been received and two (2) of our affiliated colleges namely Barak Valley Engineering College and NETES Institute of Pharmaceutical Science (NIPS) express desire to accept such students for admission.

International Conference on Renewable and Alternate Energy **(ICRAE-2018)**

Assam Science and Technology University (ASTU), the premier technical university of North-East organized its first ever International Conference on Renewable and Alternate Energy (ICRAE-2018) on 4th-6th December, 2018, at NEDFi Convention Centre, Ganeshguri, Guwahati. The Conference aspired to disseminate and network on renewable and alternate energy research with special emphasis to the subjects with emerging research interests such as biofuel, bioenergy, fuel technologies, waste to energy conversions, climate change etc. The main topics covered in the conference were as follows: advanced and conventional biofuels, bioenergy, biomass conversion technologies, solar, wind, hydro, geothermal, fusion energy, fuel technologies, waste to energy conversion, waste management, environmental compliances, energy- environment & climate change, energy for sustainable future, energy conservation & management, integrated /hybrid energy systems, alternate Energy resources and all other renewable energy technologies.

Hackathon-2019

North East Hackathon -2019, first of its kind was held from 2nd to 4th September 2019 under TEQIP-III program of ASTU where five areas of specific nature was selected to find the solution leading to a startup activity.

The area selected were:

- Tourism
- Food Technology
- Textile and Handloom
- Water Management
- Energy, Environment and Sustainability

The Hackathon was able to draw around 500 participants from different parts of North East India consisting of 90 teams. The first three teams were awarded prize money of Rs 1,50,000/- , Rs 75,000/- and Rs 50,000/- respectively.

The 1st prize was won by Manipur Technical University, 2nd prize was claimed by IIT Guwahati and 3rd prize went to GIMT Guwahati.

The massive three day event included Yoga, Training Sessions, Monitoring Sessions, Lectures by Eminent Experts, Accommodation of students, Transportation, Food and Recreation.

Five committees were formed with eminent personalities from five different fields. Experts were invited to evaluate the presentation by team members.

The event was successful in content creation, awareness, and wholehearted participation of the students and faculties of the affiliated colleges of the university and other institute of NE India.

2nd National Conference on Recent Advances in Science & Technology (NCRAST 2019)

The Assam Science and Technology University (ASTU) successfully organized of its 2nd edition of National Conference on Recent Advances in Science & Technology (NCRAST 2019) during May 15 – 17, 2019 under TEQIP-III project as twinning activity with JNTU, Hyderabad. The main objective of NCRAST2019 is to bring together the academic and industrial experts in the field of Science and Technology to a common forum. The conference aspires to exhibit the technical excellence of budding technocrats, research scholars, representatives from the academia and industry. The scope of the conference was formulated in such a way that students/researchers/faculty of all Engineering, Science and Allied fields of S&T can participate in NCRAST 2019. Almost 200 (two hundred only) candidates was registered for the 2nd NCRAST 2019. Out of which around 15 papers were selected for oral presentation and other candidates are selected for poster presentation. Apart from the oral and poster presentation, one (1) keynote speech, two (2) planer talk and eleven (11) invited talk was conducted during the 2nd NCRAST 2019.

3rd edition of National Conference on Recent Advances in Science & Technology (NCRAST 2020)

Assam Science and Technology University (ASTU) is organized the 3rd edition of National Conference on Recent Advances in Science & Technology (NCRAST 2020) from August 17 to August 19, 2020 on a virtual platform due to the outbreak of COVID-19 pandemic. The event was organized as a twinning activity with Jawaharlal Nehru Technical University, Hyderabad under TEQIP-III Project of Ministry of Human Resources, Government of India.

NCRAST 2020 encompasses science & technology advancements in all branches of engineering, energy including nuclear, solar, bio-fuel, fuel cell, wind, thermal, hydro and hybrid energy, material sciences such as nanomaterial, polymer technology, bio-material, any advanced materials, super conductor etc., plasma science and technology, bio-engineering and allied fields, environmental science and engineering, food processing, preservation & packaging, water resource management and associated technologies, robotics & artificial intelligence, remote sensing, design and architecture, etc. 25 scientists from leading universities and research organizations all around the world such as UCLA- USA, ITER- France, American University of Beirut- Lebanon, University of Lund- Sweden, ISRO- India, International Centre for Genetic Engineering and Technology- India, CSIR- India and Cotton

University- India delivered extremely informative and enlightening talks in the event. The papers presented at NCRASST 2020 was published in the form of book and three best papers was awarded with prize money.

Apart from the technical talks, there was also poster presentation competitions for students wherein more than 300 students participated.

Project of a Bamboo boat in Brahmaputra river with IWT Department, Govt of Assam and Assam Energy Development Agency

University emphasis the use of local materials like bamboo for developing a device i.e replicable for a wooden or plastic board using bamboo. A concept was developed to manufacture and install successfully the Boat Project for use.

A bamboo boat was developed with the help of Shri Tilak Chandra Mahanta of IWT Deptt. under the project title “Development and construction of hull structure of boat using bamboo trunk as shell member blended with wooden / steel or bamboo framework”. This was planned under a scheme “Innovation, Technology Generation and Awareness” of ASTEC, Guwahati. The boat is having all bamboo component joined with special adhesives after proper seasoning of bamboo trunk. The boat is being use a teashop in the bank of Brahmaputra in Guwahati. A grant of Rs. 206,600/- was received by the University from ASTEC, Guwahati for this project.

SANDHAN: An Innovation Challenge

SANDHAN: An Innovation Challenge competition was organized by Assam Science and Technology University under TEQIP-III program to involve students of affiliated institutions in developing innovative anti- COVID-19 solutions. The event was organized in two stages via online platform. The stage I was organized on 13.07.2020 and 14.07.2020 in which 48 teams from affiliated institutions and other institutions of North-East were participated in 14 different topics related to COVID-19. Total 11 teams were selected for the final stage which was organized on 31.08.2020. ASTU also provided necessary financial assistance to the winning proposals under TEQIP-III project.

TEQIP-III STATUS REPORT

Assam Science and Technology University is the only affiliating university for technical institutes in the state of Assam. ASTU is committed to improve the quality of technical education in the region. TEQIP-III under MHRD, Government of India, has aided ASTU's ambition to a great extent. ASTU has organized more than 150 events under TEQIP-III till first week of July 2020. These events have not only helped the students, research scholars and students of technical institutes of the state but also immensely helped school students as well.

The events organized by or under the umbrella of ASTU under TEQIP-III can be broadly categorized into 6, which are:

- Industry Conclave
- Workshops
- Training Programs
- Lectures
- Student Conclave
- Webinars

Some of the events such as Gandhi and Technology: Perspective and Approaches, North East Hackathon, National Symposium for Biomedical Engineering and Workshop on Smart City Development in India: Prospects and Problems were able to generate waves throughout the student and teaching community of the state. All the participants of these events gained valuable experience and insights from the rich panel of resource persons. Catch Them Young for Engineering is a novel approach to guide the budding young minds towards engineering education. More than 125 schools across 12 districts of Assam have participated in this program. Various competitions such as ROBOKHEL (make and play robots), make rockets and launch, on spot challenges, Make 3D (art meets technology) as well as science exhibitions and scientific talks are organized so attract the students.

COVID-19 pandemic has given rise to unforeseen circumstances that has hampered the planning and organization of the events. However, the TEQIP-III team of Assam Science and Technology University has faced this adversity efficiently and organized various webinars to keep the students and faculty members engaged during the lockdown period. Various webinars on topics such as technology and mental health are organized for the benefit of the students.

Various offline workshops, seminars and training programmes are already planned for when and if the situation normalizes and it's safe for people to attend these programmes.

Enterprise Resource Planning (ERP)

In a bid to streamline the administration process and make it paperless, Assam Science and Technology University has undertaken a ERP project under TEQIP-III. This system, once fully operational, can be used to track files online, check affiliation status, used for course registration of all the affiliating colleges/ institutions of ASTU, organize examination, finance, HR, requisition and purchase and many more.

The ERP project is currently under developmental phase for Assam Science and Technology University and aims to be fully functional for all the affiliating colleges/ institutions of ASTU by September 2020.

Competitive Research Grant Scheme (CRS) under TEQIP-III

Assam Science and Technology has also under a Competitive Research Grant Scheme (CRS) under TEQIP-III. Following are the details of funds and list of projects under CRS.

Total No. of projects

Project sanctioned	Phase-I	Phase-II	Phase-III	Total
	73	30	9	112
Project Withdrawn	(-3)	(-3)	(-0)	(-6)
Total Project Sanctioned	70	27	9	106

3 review meetings have been conducted for the ongoing projects under CRS. The 3rd meeting was conducted in two phases on 15/06/2020 and 24/06/2020.

CRS Payment Detail till Inception as on 19/06/2020

Installments	AEC	JEC	JIST	BBEC	GIMT- GHY	GIMT- TEZPUR	ASTU	Total
<u>Phase-I</u>								
Total (INR)	3362846	3087975	1064000	1405050	2682800	1662500	2280000	15545171
Projects Granted to	28	12	4	5	10	6	9	74
Withdrawn and not withdrawn	4	0	0	1	0	0	0	5
Active (amount in INR)	24	12	4	4	10	6	9	69
	(3362846)	(3087975)	(1064000)	(1405050)	(2682800)	(1662500)	(2280000)	(15545171)

<u>Phase-II</u>								
Installments	AEC	JEC	JIST	BBEC	GIMT-GHY	GIMT-TEZPUR	ASTU	Total
Total	1715000	436000	284000	70750	1626500	68250		4200500
Projects Granted to	12	3	2	1	11	1	0	30
Withdrawn and not withdrawn	1	0	0	0	0	1	0	2
Active	11	3	2	1	11	0	0	28
(amount in INR)	(1715000)	(436000)	(284000)	(70750)	(1626500)	(68250)		(4200500)
<u>Phase-III</u>								
<i>Total</i>			400000	115000		31750		546750
Projects Granted to			4	4	0	1	1	10
Withdrawn and not withdrawn			0	0	0	0	0	0
Active			4	4	0	1	1	10
(amount in INR)			(400000)	(115000)		(31750)		
Total utilized (%)	Review not done							
Total disbursed(INR)	5077846	3523975	1748000	1590800	4309300	1762500	2280000	20292421
Total Allocation(INR)	10155693	4122500	2488000	2262000	6077000	1950000	2900000	29955193
Total balance to be disbursed(INR)	5077847	598525	740000	671200	1767700	187500	620000	9662772

Assam Science and Technology University Central Research Hub (CRH)

The ASTU Central Research Hub was initiated in 2018 under the TEQIP-III Programme. ASTU CRH aims to create the best possible environment with state-of-the-art facilities for research and innovation to flourish within the region. ASTU will also harness the expertise of leading researchers across the country and the globe to focus on challenge-led, disciplinary and inter-disciplinary research thus

strengthening the capability for research along with innovation and knowledge exchange. The Phase-I of ASTU CRH has been established in 2019 with the following four constituent laboratories:

- Multi-disciplinary Experimental & Testing Accessible Laboratory (METAL)
- Energy Research Laboratory (EEL)
- Material Science Research Laboratory (MSRL)
- Tribology Laboratory (TL).

Multidisciplinary Experimental and Testing Accessible Laboratory (METAL)

The objective of this lab is to carry out high end research activities in the field of plasma technology, the available facilities at METAL can be used for (i) Development of novel coating (polymer to metal coating) using Ionized Physical Vapour Deposition (iPVD) technique, (ii) Development of Si photovoltaics, (iii) Improve the seed germination, production yield of different seeds using cold air plasma technology, (iv) Synthesis of graphene using chemical process, (v) Basics experiments related to plasma technology.

Available Equipments : iPVD reactor, EDGR, High resolution spectrometer, Digital Flow Controllers, High vacuum pumping system, Magnetic Stirrer, Ultra Sonicator, Centrifuge, High voltage power supplies (DC & RF), Heating controller & monitoring system, Langmuir probe etc.

Energy Research Laboratory (ERL)

The objective of this lab is to carry out research activities that aids the development of renewable energy and energy efficiency. The research focuses on clean energy science and technology innovation in areas such as solar, wind, biomass, clean fuels, advanced vehicles, and building energy efficiency. The core areas of research are (i) Bioenergy Technology (ii) Combustion Technology (iii) Alternate fuel for transportation (iv) Thermo photovoltaic Technology (v) Energy Efficient Materials.

Available Equipments : TGA, DSC, Rheometer, Computerized VCR, Downdraft Gasifier, 10kW, Bomb Calorimeter (Digital), Flash and fire point apparatus (Digital), Five sensor flue gas analyzer, Ash fusion Analyzer, Cloud point and pour point Apparatus, Rotary Vacuum Evaporator, FTIR etc.

Material Science Research Laboratory (MSRL)

The objective of this lab is to carry out high quality research that aids in the production and study of high-performing materials which have vast industrial applications. The core areas of research are (i) Development of High Strength Steel (ii) Al-Mg-Sc Alloy Systems (iii) Ti Alloys (iv) Development of novel vibration damping materials.

Available Equipments: Automatic polishing machine, Optical Microscope, Micro Vickers Hardness Tester, Optical Emission Spectrometer, Stir casting furnace, Diamond Sectioning Machine, Muffle furnace, Hot air oven, Hot mounting press, Cold mounting press, Rockwell hardness tester.

Tribology Laboratory (TL)

The objective of this lab is to carry out research with the aim to reduce wear and tear and loss of energy between bodies under relative motion. This lab also provides the fundamental research infrastructure to faculties and students of affiliated institutions of ASTU and other institutes of the state in tribological aspects to accelerate the research in this field. The core research areas are (i) Tribological characterization of bio fuel and lubricants (ii) Characterization of Journal Bearings (iii) Metal Characterization.

Available Equipments: Four Ball Tester, Pin/Ball on Disc tribometer, Journal Bearing Tester.

TEQIP-III Expenditure Achievement as on 22/06/2020

Fund	Procurement	Academic	IOC	Total
Allocated (INR)	8,00,00,000	10,00,00,000	2,00,00,000	20,00,00,000
Expenditure(INR)	6,59,46,271/-	5,60,34,272/-	55,85,794/-	12,75,66,337/-

Annexure 1: List of activities conducted under TEQIP-III (as on 24/06/2020)

Sl. No.	Name of Programme	Date	Venue
1	National Workshop on NBA Accreditation	27 th December,2017	Assam Science and Technology University
2	Workshop on Induction Training Program	10 th July, 2018	GIMT, GHY
3	Workshop on Management Capacity Development	18 th Sept, 2018	RSET, GHY
4	Expert Lecture on Start-up and Innovation	18 th Sept, 2018	RSET, Ghy
5	Faculty Development Program on “Improvement of Classroom Teaching”	18-22 June, 2018	GIMT, Tezpur
6	Expert Lecture	26 th Feb, 2018	Sudmersen Hall, Cotton University
7	Expert Lecture on Energy Environment : Plasma Processes for Decarbonization	29 th November, 2017	Institution of Engineers (India)

8	A short term course on “Advanced learning of MATLAB & SIMULINK and Then Application in Electrical Engineering”	19 th -23 rd March, 2018	GIMT-Guwahati
9	National Conference on Recent Advances in Science and Technology (NCRASST-2018)	15 th -17 th March,2018	TISS
10	Orientation workshop on MOOCs and Digital Learning	20 th September, 2018	NITS MIRZA
11	Expert Lectures on Start up and Innovation	5 th May, 2018	Assam Engineering College
12	One Day Workshop on “Waste to Energy: An Alternative Energy Source”	13 th August, 2018	Assam Science and Technology University
13	Two days National Workshop on Modern Power Engineering Trends and Practices in India	21 st &22 nd September, 2018	GIMT, Ghy
14	National Workshop on NBA Accreditation	27 th December, 2017	Assam Science and Technology University
15	OBE Workshop for NBA Accreditation	20 th and 21 st April, 2018	Assam Science and Technology University
16	Expert Lecture series on Skill Development and Mock Interview	4 th -8 th September, 2018	04.09.2018 – NITS Mirza 05.09.2018 – SITM, Guwahati 06.09.2018 – RSET, Guwahati 07.09.2018 – GIMT Guwahati 08.09.2018 – GIMT Tezpur
17	FDP on ANSYS software	10 th -14 th September,2018	ASTU

18	Hackathon	27 th October,2018	Institute of Engineers, Panbazar
19	ICRAE-2018	4 th -6 th December,2018	Nedfi Convention Centre
20	FDP on Labview	28 th Jan- 1 st Feb, 2019	GIMT, Guwahati
21	One Week(1-Week) Workshop on MATLAB Applications in Engineering	18 th -23 rd Feb, 2019	GIMT- Tezpur
22	One Day(1-Day) Workshop on Mathematical Aspects on Engineering Applications	28 th Feb, 2019	GIMT-Tezpur
23	Expert Lecture on Green Chemistry	9 th March,2019	GIMT-Tezpur
24	Two Days Toolroom Training	13 th -14 th March, 2019	MSME Toolroom, Amingaon
25	Expert Lecture series on Skill Development and Mock Interview	16 th March	GIMT-G
26	Workshop on “ Digital Image Processing using MATLAB”	25 th -26 th March, 2019	SITM, Guwahati
27	ICC Meeting (chemical engineering)	2 May, 2019	ASTU
28	Expert Popular Lecture on Application of Nanotechnology	May 07, 2019	Assam Engineering College Auditorium
29	Awareness & Motivation programme on Innovation and Start-up	May 10, 2019	Assam Engineering College Auditorium
30	NCRAS-2019	May 15-17, 2019	NEDFi House
31	A Two Day Workshop on Fuzzy Logic Applications in Engineering	May 17-18, 2019	GIMT Guwahati
32	Industry Academia Conclave	May 21, 2019	NEDFi House
33	Two-Week FDP on Research Methodology and Pedagogy in Teaching Learning	May 20-31, 2019	Dept. of Chemical Engineering, AEC
34	One day Workshop on Mathematics Education in engineering Colleges of Assam	June 27, 2019	GIMT-Guwahati
35	Bridge Course	29 July, 2019	GIMT-G

36	FDP on Recent Advances in Concrete Technology	15-19 July,2019	AEC
37	Geo Spatial Technology using space Inputs	July 30-31,2019	Gateway Grandeur
38	Award Ceremony of Research Grant	July 30, 2019	NEDFi
39	NBA workshop	31 July, 01 August, 2019	ASTU
40	Water and Waste Water Management	1-2 August, 2019	NEDFi
41	ICC Meetings (ECE)	8 July, 2019	ASTU
42	One day workshop on Registration Process and Technical Aspect of National academic Depository	8 August, 2019	GIMT-G
43	Workshop on Anti Ragging and Women Harassment	13 August, 2019	BVEC
44	Bridge Course on Physics, Chemistry, Mathematics and English Communication	16-19 August, 2019	BVEC
45	Catch Them Young for Engineering	19 August, 2019	Nalbari
46	Two day Workshop on Application & Demonstration on Drone Technology	August 21-22, 2019	Gateway Grandeur and ASTU
47	Two day Workshop on Specially Abled	22-23 August	BVEC
48	One day workshop on Role of University Functionaries on Exam Reforms	23 August, 2019	ASTU
49	Workshop on Biodiversity	24 August, 2019	Assam State Zoo Auditorium
50	FDP Deep Learning and Machine Learning	26-30 August, 2019	GIMT-G
51	FDP on Power Electronics and Drive Systems	26-30 August, 2019	GIMT-G
52	FDP on Physics, Chemistry and Mathematics for Engineering Students	26-30 August, 2019	GIMT-T
53	Catch Them Young for Engineering	31 August, 2019	Charaideo
54	HACKATHON	3-4 September, 2019	Maniram Dewan trade Centre
55	Renewable Resources and Sustainable Technologies	4- 5 September, 2019	AEC
56	Data Science and Optimization in System and Control	5-7 September, 2019	IIT G
57	Two day Workshop on Artificial Intelligence	6-7 September, 2019	NEDFi
58	Role of IQAC in Quality Enhancement in Technical Institutes	9 September, 2019	GIMT-G

59	Academic Lecture	9-10 September, 2019	BBEC
60	Catch Them Young for Engineering	12 September, 2019	Dhubri
61	Workshop on Innovation and Entrepreneurship	12 September, 2019	GIMT-T
62	Catch Them Young for Engineering	14 September, 2019	Bongaigaon
63	Academic Lectures	16 September, 2019	GIMT-G
64	Catch Them Young for Engineering	18 September, 2019	Dhemaji
65	Expert lecture on Digital India	19 September, 2019	GIMT-G
66	Visit to MSME Tool Room Training Centre	19-20 September, 2019	GIMT-G students
67	Catch Them Young for Engineering	23 September, 2019	Sonitpur
68	Staff Development Program	23 September, 2019	Prag Continental
69	Roof top Solar Voltaic On Grid and Off Grid	23-25 September, 2019	SITM
70	Advancement in Mechanical Engineering	23-27 September, 2019	GIMT-G
71	Catch Them Young for Engineering	25 September, 2019	Nagaon
72	Catch Them Young for Engineering	26 September, 2019	Karbi Anglong
73	Media Technology	27 September, 2019	GU
74	Catch Them Young for Engineering	27 September, 2019	Golaghat
75	Artificial Intelligence and Machine Learning	27-28 September, 2019	GU
76	Academic Lectures	28 September, 2019	GIMT-G
77	Catch Them Young for Engineering	29 September, 2019	Jorhat
78	5 days Expert Lecture Series on Broader Prospects of Engineering	21- 25 October, 2019	GIMT-T
79	Leadership training Program with IIM Shillong	23-25 October, 2019	NEDFi
80	3 days Training on Power System Analysis	1-3 November, 2019	GIMT-T
81	Lecture on Civil Engineering Practices in National Highway Works in Assam	1 st November, 2019	GIMT-G
82	One Day Workshop on "Grooming the Engineering of Tomorrow"	4 November, 2019	GIMT-T

83	Lecture on Career Path	4 November, 2019	AEC
84	Lecture on Career Path	5 November, 2019	GIMT-G and SITM
85	Academic Reforms and Art of Doing Research	6 November, 2019	NEDFi
86	Expert lecture on Material science and engineering	7 November, 2019	GIMT-T
87	Academic lecture series on “Understanding the Brahmaputra and cases of flood and Erosion”	6 th November, 2019	GIMT-G
88	Catch Them Young for Engineering	8 November, 2019	Karimganj
89	Catch Them Young for Engineering	15 November, 2019	Haflong
90	One Day workshop on Stress Relief and Mental Health of Engineers	15 November, 2019	GIMT-T
91	One day workshop on Mathematical learning	16 November, 2019	GIMT-T
92	One week Faculty Development Program on Research and Development in Civil Engineering	18-22 November, 2019	GIMT-G
93	FDP on Prospects of Mechanical Engineering in Renewable Energy sector	19-23 November, 2019	GIMT-T
94	Gandhi and Technology: Perspectives and Approaches	22 November, 2019	AEC
95	One Day Training Program On Use Of ICT Tools In Teaching And Evaluation	23 November, 2019	GIMT-T
96	6 day FDP on Engaging Today’s Learners	9 th -13 th December,2019	GIMT-G
97	Visit to MSME Tool Room Training Centre	22 nd -30 th January, 2020	BVEC students
98	BOS Meeting (EE)	24 th January, 2020	ASTU
99	One day workshop on Writing Effective Collaborative Research Proposals.	27 th January, 2020	NEDFi Convention Centre
100	One day workshop on "Technical Aspects of Film Making"	30 th January, 2020	NEDFi Convention Centre
101	Expert talk on “Nourishing the Entrepreneurial Leadership in young engineers”	3 rd February, 2020	GIMT-G
102	One day Workshop on Administrative effectiveness at Workplace	4 th February, 2020	Hotel The Manor, Jorhat
103	One day Sensitization Workshop on SWAYAM and MOOCs	4 th February, 2020	ASTU Seminar Hall

104	Three - Day Workshop on “MATLAB For Engineers”	4 th - 6 th February ,2020	BVEC
105	Catch Them Young for Engineering	4 th February, 2020	Majuli
106	Lecture on Earthquake resistance Design and seismic retrofitting of building	5 th February, 2020	GIMT-T
107	3 days students’ workshop on Python and Introduction to Data Analysis	5 th -7 th February, 2020	GIMT-G
108	Catch Them Young for Engineering	12 th February, 2020	Sadiya
109	ACADEMIC LECTURE BY INDUSTRY EXPERTS”	12 th February,2020	GIMT-G
110	Two Days Workshop on Adequate Working Knowledge On Total Station	13 – 14 th February 2020	GIMT-G
111	2 nd CRS Review	14 th -15 th February 2020	ASTU Seminar Hall
112	BOS Meeting (ECE)	19 th February, 2020	ASTU
113	BOS Meeting (Humanities)	20 th February, 2020	ASTU
114	"Matribhasha Diwas" (Mother Language day)	21 st February, 2020	ASTU
115	Two day National Symposium on Biomedical Engineering	26 th -27 th February, 2020	NEDFi Convention Centre
116	Impact of Technocrats in the field of research and development and contribution of women	28 th February, 2020	SITM
117	Two Day Faculty Development Programme on VLSI Design for Signals & System	28 th -29 th February,2020	IIT-G
118	One day Workshop on Smart City Development in India: Prospects and Problems	29 th February, 2020	Hotel Gateway Grandeur
119	Visit to MSME Tool Room Training Centre	02 nd -06 th March, 2020	GEC students
120	One week short term course on Material Characterization and Tribology	02 nd -06 th March, 2020	ASTU Seminar Hall
121	Five day short term course on Recent Advancements in 5G wireless Communications: Physical and Higher Layer Perspectives	11 th -15 th March,2020	BVEC
122	One day Seminar on Mathematics for Engineers	13 th March, 2020	GIMT-G
123	"Expert Lecture on Engineering Mathematics"	13 th March, 2020	GIMT-T

124	Three day workshop Psychological Behavioural and personality development for engineering students	19 th -21 st February, 2020	GIMT-T
125	Industrial Visit to NESAC, Shillong	17 th February, 2020.	GIMT-G
126	Webinar on Innovation in Appropriate Technology Development - Engineering Challenges	22 nd May, 2020	ASTU
127	Navigating and Dealing with Uncertain Future due to Covid-19 Pandemic	29 th May, 2020	GIMT-G
128	Webinar on “Scope of Employment Generation in Agricultural sector in the current situation of COVID-19 Pandemic	10 th June, 2020	GIMT-G
129	Online Article writing competition on “Role of Science and Technology in battling against COVID-19 pandemic”	13 th June, 2020	GIMT-G
130	3 rd CRS Review	15 th and 24 th June, 2020	ASTU
131	Workshop on " Development of Digital Learning Material, Content Development"	16 th June, 2020	ASTU
132	Webinar on “Strategies For Mental and Physical Health Protection During and Aftermath Pandemic: #COVID 19”	17 th - 21 st June, 2020	GIMT-G
133	SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) Awareness	19 th June, 2020	ASTU
134	Webinar on "Drawing and design of RCC residential building"	22 th - 23 rd June, 2020	GIMT-T
135	Online Training Programme by CIPET	23 rd – 26 th June, 2020	GIMT-T
136	Online Webinar on Industrial Internet of Things (IIoT)	Scheduling	GIMT-G
137	Online Quiz Competition on the topic “Electricity and Magnetism	Scheduling	GIMT-G
138	Webinar on Digital learning platforms in education	Scheduling	GIMT-T
139	Webinar on Recent developments in the field of solar water heating	Scheduling	GIMT-T

140	Webinar on SOLID WASTE MANAGEMENT, AN EFFECTIVE STEP TOWARDS POLLUTION CONTROL	Scheduling	SITM
141	Webinar on ALTERNATIVE FUELS, SEARCH FOR FACING GLOBAL ENERGY CRISIS.	Scheduling	SITM
142	Webinar onAssisting struggling students with Mathematics	Scheduling	SITM
143	Webinar on Corona virus Measuring Technicals using Mobile Applications	Scheduling	SITM
144	Webinar on Recent Advances in Civil Engineering” and/or “Advances in Infrastructure Development in North East India	Scheduling	SITM
145	Webinar on Study of IoT based biometric access control system	Scheduling	SITM
146	Webinar on BLUE BRAIN the World’s First Virtual Brain	Scheduling	SITM
147	Webinar on Introduction to Machine Learning	Scheduling	SITM
148	Webinar on How to shine in speaking, writing and conducting yourself in the scientific research milieu	Scheduling	SITM
149	Training for online campus requirement	Scheduling	GIMT-G
150	Online competition on alternative energy and sources of future	Scheduling	GIMT-G
151	5 day webinar on mental and physical health protection during and aftermath pandemic COVID 19	Scheduling	GIMT-G

Annexure 2: Details of CRS projects

Sl. No.	PI Name	Institute	Project Title
1	ANIL BORAH	AEC	INVESTIGATION OF THE EFFECT OF TRACE ADDITION OF TITANIUM ON 2XXX SERIES ALUMINIUM ALLOY
2	Plabon Kakoti	AEC	Development of an Index for Ranking of Cements
3	Utpal Kumar Nath	AEC	Size effect of SCC with Partial Replacement of ingredients of conventional concrete by Slag
4	Deba Kumar Mahanta	AEC	Transformer Insulating Liquid Characterization
5	Bipul Talukdar	AEC	Development of sustainable self-compacting concrete with the effective use of locally available waste material
6	Dilip Kumar Bora	AEC	Crude biodiesel production and Purification of crude biodiesel using dry washing
7	Binu Sharma	AEC	Effect of Ethanol on Compressibility, Swelling and Permeability characteristics of Bentonite-Sand mixtures
8	Dimbendra Kumar Mahanta	AEC	A study on the effects of parameters of torrefaction on the quality of torrefied biomasses.
9	Ashim Kumar Basumatary	AEC	Separation of industrial oily wastewater with tubular ceramic membrane
10	Ashok Baruah	AEC	Removal of arsenic and fluoride from groundwater of Kamrup district, Assam, India
11	Bornali Gogoi	AEC	Analysis using Big data in Education for Quality Improvement for students as well as faculties.

12	Gitanjali Majumdar	AEC	Developing “carbon nanomaterial” based improved Nano-lubricants
13	Triptimoni Borah	AEC	An experimental study on noise pollution in the campus of Assam Engineering College
14	Rhittwikraj Moudgollya	AEC	Design a framework to detect moving object for intelligent video surveillance system
15	Dolly Talukdar	AEC	Synthesis and Characterization of hyperbranched epoxy clay nanocomposite for improved surface coating application
16	Jutika Goswami	AEC	Development of Chitosan based biocomposite using plant extract
17	BIPUL TALUKDAR	AEC	LAND USE LAND COVER (LULC) CHANGES IN JORHAT TOWN, ASSAM AND ITS IMPACT IN URBAN STORM FLOODING
18	Ujwala Hujuri	AEC	Composting of locally available waste biomass by different techniques
19	Nishant Bharti	AEC	Automated Animal Detection and Warning System
20	PRASENJIT SAHA	AEC	STRUCTURAL DESIGN USING MACHINE LEARNING(AI)
21	Rashi Borgohain	AEC	Fabrication of biosensors to detect different types of bacteria in water
22	Ashim Kumar Basumatary	AEC	Modification and Enhancement of the low Smoke Heat Efficient Stove
23	Prasanta Kr. Choudhury	AEC	Production and characterization of biodiesel from waste cooking oil of Assam Engineering College Canteen and investigation of its CI engine performance and emissions for running its own DG (diesel generator) set.
24	Gunajit Kalita	AEC	Use of reversible logic in hardware security
25	Amrita Bose Paul	AEC	On Ensuring Reliable Communication over Mobile Social Networks (MSNs)

26	Maushumi Barooah	AEC	Energy saving in Vehicular Adhoc Network(VANET) using Clustering
27	Jyoti Prokash Goswami	AEC	AN IMPROVED MODEL FOR PREDICTION AND QUALITY ENHANCEMENT OF LEARNER'S ACADEMIC PERFORMANCE IN HIGHER EDUCATION SYSTEM USING BIG DATA
28	Pankaj Goswami	AEC	Study on silt load on river Brahmaputra and some of its major tributaries
29	Dr. Deba Kumar Mahanta	AEC	Advanced Solar Water Heating System
30	Dr Dimbendra Kumar Mahanta	AEC	Comparative study of aerobic, anaerobic and semi-aerobic decomposition of municipal solid waste in a laboratory scale landfill.
31	Dr.Gitanjali Majumdar	AEC	Development of carbon nanomaterials modified molecular Sieves for environmental remediation
32	Dr. Ujwala Hujuri	AEC	Catalytic Pyrolysis of Waste Plastics
33	Dr Dilip Kumar Bora	AEC	Performance Characteristics of Biochar Production from Biomass waste
34	Rashi Borgohain	AEC	Fabrication of sensors to detect hazardous air pollutants for smart cities
35	Dr. Triptimoni Borah	AEC	A study on the impact of water pollution due to dumping of waste in Deepor Beel
36	Prof. Dhiraj Bora	ASTU	Radiation Technology development for food preservation & crop improvement
37	Prof. Dhiraj Bora	ASTU	Assessment of water quality of some wetlands in the Brahmaputra valley, Assam
38	Prof. Dhiraj Bora	ASTU	ANAEROBIC DIGESTION OF WATER HYACINTH
39	Monoj Baruah	ASTU	Computational Investigation of Perforated Hollow Shape Energy Efficient Elliptical Pin Fin Heat Exchanger

40	Plaban Bora	ASTU	Study on Design of Energy Efficient Building in North-East India
41	Nabajit Dev Choudhury	ASTU	Pyrolysis of locally available biomass samples and their blends: A study on effect of parameters, characterization of products and evaluation of thermal behavior.
42	Bharat Kakati	ASTU	Soil contamination by heavy metals due to Municipal Solid Waste
43	Bharat Kakati	ASTU	Bio Compatible Properties of Tea Tree Oil Derived Plasma Polymer Films
44	Bharat Kakati	ASTU	Development of antifouling membranes using low temperature plasma
45	Dr. B.R. Phukan	ASTU	Bamboo as a charcoal: Issue on its potential and sustainability in North-East India
46	Hemantajeet Medhi	BBEC	A Novel Approach One Pot Glycerol free Biodiesel Production from Low cost Nonedible oils found in the ASSAM region
47	Jyotishmoy Borah	BBEC	Development of Epoxy Based Nano-Composite Materials through Plasma Irradiation Process
48	Monojit Seal	BBEC	Modelling of UPS as a backup and Reactive Power Compensation and developing the topology and control strategy for the same
49	Rajani Kant Baro	BBEC	Optimization of Solar Collectors for Enhanced Optical and Thermal Efficiency
50	Hemantajeet Medhi	BBEC	Preparation of low cost activated carbon from waste biomass gasification tar
51	Dr Jyotishmoy Borah	BBEC	DEVELOPMENT OF INTUMESCENT FLAME RETARDANT MATERIALS AND THEIR APPLICATION IN POLYOLEFINS
52	Dr. Rupamjyoti Nath	BBEC	Use of Modern Technology in containing the witch Hunting Problem in Assam with special Reference to the BTAD Area

53	Dr. Rupamjyoti Nath	BBEC	Management of marine transportation activity in Assam: Linear Programming and Cooperative Game Theory
54	Rashmi Ranjan Behera	BBEC	Design and Control of Synchronous Reluctance Motor for Fan/ Two-wheeler Applications
55	Utpal Barman	GIMT-Ghy	Simulation and prediction of Monsoon on short and long range forecast for the various station of Assam.
56	Sanjib Hazarika	GIMT-Ghy	Solar powered Wearable Technology to solve issues during agriculture in context to North East.
57	Debdeep Saha	GIMT-Ghy	Energy Auditing of Tea Estates of Assam (McLeod Russel - Monabarie Tea Estate and Amchong Tea Estate) followed by technical advice and training on energy saving audit data analysis and report generation.
58	Sandip Bordoloi	GIMT-Ghy	Smart Water Quality monitoring system with reference to Deepor Beel using IoT and Artificial Intelligence.
59	Akalpita Das	GIMT-Ghy	Detection of Parkinson's disease from hand-drawn images using Deep Learning Techniques
60	Adarsh Pradhan	GIMT-Ghy	Detection and Classification of Cancer Cell
61	Anindita Bora	GIMT-Ghy	Design of a low cost portable tea quality assessment system
62	Ajanta Deka	GIMT-Ghy	Theoretical insight on graphene as sensor for small molecules
63	Thokchom Shanta Kumar	GIMT-Ghy	Time Series Analysis and Prediction of Air Pollution in Guwahati
64	Abhinandan Kalita	GIMT-Ghy	Early Detection of Diabetic Retinopathy
65	Swapnaneel Sarma	GIMT-Ghy	Machine Learning enabled prediction of epidemic spread

66	Aunshuman Chatterjee	GIMT-Ghy	Determination of physical properties of Bamboo Trunk
67	Dr. Debarshi Mallick	GIMT-Ghy	Pyrolysis kinetic study of Mesua ferra seed covers for bioenergy potential using Thermogravimetric analysis
68	BHABAJIT BARUAH	GIMT-Ghy	Experimental and numerical simulations of vortices arising out of high velocity wind energy and minimizing the impact on the National Flag at Gandhi Mandap hilltop and in turn trap the wind energy for sustainable development.
69	Dr. Sangeeta Das	GIMT-Ghy	Enhancement of tribological properties of various cutting tools through micro-texturing during manufacturing.
70	Rajib Bhowmik	GIMT-Ghy	Optimizing the friction and wear characteristics of seed oil based lubricant.
71	Utpal Barman	GIMT-Ghy	Development of Computer based application to detect the different diseases of Potato, Tomato and Maize.
72	Dr. Debdeep Saha	GIMT-Ghy	Modeling of Combined Cycle Gas Turbine Plant with special emphasis to exhaust temperature and emission levels (Kathalguri Power Plant, Dibrugarh, NEEPCO)
73	Dr. Akalpita Das	GIMT-Ghy	Breast Cancer detection from mammographic images using Deep learning architectures.
74	Dr. Sandip Bordoloi	GIMT-Ghy	Development of a handheld chlorophyll meter for determination of Chlorophyll Content Index for agricultural purpose
75	Mr. Adarsh Pradhan	GIMT-Ghy	Diabetic Retinopathy Detection
76	Stutee Chakravorty	GIMT-Tezpur	Assessment of physico-chemical properties and metal contents of water in some wetlands of Sonitpur District

77	Sangeeta Baruah	GIMT-Tezpur	“Disparities among the districts of Assam in the qualitative usage of Family Planning”.
78	BIDYUT DEKA	GIMT-Tezpur	Design and Development of Planar Waveguide based Compact Photonic Integrated Components for Optical Communication
79	Sujit Talukdar	GIMT-Tezpur	Some MHD convective Flows with heat and Mass Transfer
80	Dipal Baruah	GIMT-Tezpur	A study on bridging the gap between manufacturing industry needs and academic curriculum of B.Tech Mechanical Engineering under Assam Science and Technology University
81	DHRITIKA SAIKIA	GIMT-Tezpur	Flywheel Energy Storage System for Roof Top Photo voltaic Systems
82	Pranab Kumar Ojah	GIMT-Tezpur	Bamboo as a reinforcement in RCC structural elements
83	Diganta Hatibaruah	JEC	Fabrication and characterization of bamboo fiber – polymer matrix composite material
84	Deva Kanta Rabha	JEC	Development and testing of a passive dryer with Biomass Burner
85	Arobindra Saikia	JEC	Enhancement of Electric Vehicle Stability and minimize its Energy Requirement.
86	Monisha Pathak	JEC	Robust Control of Uncertain Robotic Manipulator
87	RUPAM BARUAH	JEC	Early detection and prevention of Breast cancer using Machine Learning and Big data analytics
88	Mrinal Buragohain	JEC	Design of a soft computing based optimal and adaptive controller
89	Biswajit Sarma	JEC	IoT-based smart farming
90	Diganta Baishya	JEC	Content Analysis of a natural language
91	Siddhartha Baruah	JEC	A Predictive Solution for Prognosis, Diagnosis and Simulation of Disease Pattern using Big Data and Deep Learning.

92	Pranabjyoti Haloi	JEC	News Video Shot Segmentation and Categorization.
93	Arup Bhattacharjee	JEC	Use of bamboo as soil reinforcement
94	Rupanjali Nath	JEC	Forecasting of energy for sustainable development of Assam using optimization techniques and forecasting techniques
95	Joydip Kumar Sarmah	JEC	Designing a Predictive Model for Quality Assurance under Sarba Siksha Abhiyan using Machine learning and Big Data Analytics
96	Rupam Baruah	JEC	Disease identification of crops using image processing techniques
97	Dr. Arup Bhattacharjee	JEC	Seismic Requalification of bridge constructed over river Buridihing & Dikhow
98	Nayanjyoti Talukdar	JIST	Non Thermal Plasma Process technology for development of Si photovoltaics
99	Borad M Barkachary	JIST	Numerical modelling, simulation and experimental study of nanoindentation of silicon and silicon carbide.
100	BHASKAR JYOTI SARMAH	JIST	SYNTHESIS, CHARACTERIZATION AND CATALYTIC APPLICATIONS OF RUTHENIUM AND IRIIDIUM METAL COMPLEXES AND METAL NANOCOMPOSITES.
101	Md Imtiaz Alam	JIST	Designed of a newly silencer for automobile specifically for flooded areas
102	Mridul Deka	JIST	To investigate the performance and emission of a CRDI engine under different fuel injection techniques and different blends of bio diesel and petroleum diesel
103	Dr Gouri Goutam Borthakur	JIST	Design and Development of a Credled electric Socket
104	Dr.Chandra Chutia	JIST	MATHEMATICAL MODELING FOR WASTE MANAGEMENT
105	Dr Parasa Hazarika	JIST	Low cost Synthesis of carbon nano materials from biomass, characterization and its application

106	Pankaj Borah	JIST	Design and development of a mitigation tool for Solar Photovoltaic (PV) module through investigation on impact of dust in different atmospheric locations of Assam.
107	Kamalesh Kumar Pandit	JIST	A STUDY OF SOME MHD CONVECTIVE HEAT AND MASS TRANSFER FLOW PROBLEMS WITH APPLICATION

REPORT OF GENERAL ADMINISTRATIVE SECTION :

The General Administration Department of the university conducts the regular affairs of the university in respect of recruitment of personal, general construction activities, communication with UGC, AICTE and other statutory bodies, meeting of the statutory bodies of the university, store, purchases, security, management of employees affairs regarding service, medical insurance, welfare etc.

The recruitment activities

A. The University has recruited the following permanent staffs for the University

- i. Secretary to the Vice Chancellor- Person selected Mr. Sisam Raj Chakraborty
- ii. Administrative Assistant- Person selected Mr. Pranoy Kumar
- iii. Assistant Accountant- Person selected Mr. Chandan Bhattacharya
- iv. Junior Assistant/ Office Assistant- Person selected Ms. Himashree Das
- v. Stenographer (Grade-I)- person selected Mr. Sanjiv Baishya
- vi. System Administrator- person selected Mr Basanta Barman
- vii. Front Office Assistant – Person selected Mrs. Pranita Deka.

The recruitment is conducted through public advertisement. The above positions are sanctioned by the Govt. of Assam.

B. The University has recruited the following contractual staffs as per requirement.

- viii. Procurement Executive – to control and oversee the procurement activities.
- ix. Chief Engineer – to supervise the construction activities/responsible of all aspects of University construction and other engineering activities.
- x. Site Engineer – to assist Chief Engineer.
- xi. Junior Assistant for CEE examination – for examination work assistance.
- xii. Project Officer for TEQIP –III Projects – project staff to oversee the centrally funded TEQIP – III activities.
- xiii. Project Assistant for TEQIP –III Projects – to assist project officer and coordinator.
- xiv. Content Writer – for TEQIP -III works.
- xv. Driver – for office vehicles.

The need of the temporary person is informed to the Executive Council and subsequently recruitment is conducted by public advertisement.

1. Construction activities:

- i) The construction of Academic Building and Vice Chancellor's residence is under construction by Assam PWD to be constructed in the university campus.
- ii) Conference hall was constructed by modifying a parking shed for seminars and conferences of the university (Conference Hall -2).
- iii) Land requirement proposal for the extension of university is processed through the Government of Assam for various extension activities of the university. Govt. of Assam has allotted nearly 52 Bighas of land in Jalukbari area for development of campus II of the university. Master plan and DPR is being prepared for this purpose. A renowned Architect has been engaged for this infrastructure development. University has planned to develop campus II of ASTU at the new plot and it has estimated to built it with a probable cost of about 100 crore.
- iv) Under TENIF programme of Govt. of Assam about Rs. 7 (seven) crore is being utilized to construct Annexe to the CRH Lab, Evaluation Centre, Guest House cum Seminar hall, University Gate and Parking Shade etc. in the campus I of the university.

2. Collaborative Project:

As per the project agreement for a collaborative project with Curtin University, Australia in the form of an MOU between Govt. of Assam and Curtin University is being implemented through Assam Science and Technology University which will result in a upgradation of technical education in the State. A team of ASTU officials were planned to visit Curtin University for collaborative study and the research on some local issues. Visit of ASTU officials to Curtin university is postponed due to COVID -19 situation.

3. MOUs have been signed with the following organizations:

<i>Sl. No.</i>	<i>Agreements</i>	<i>Signed on</i>	<i>Purpose</i>
1	MoU signed with National Power Training Institute (NPTI), Guwahati	12 th September, 2017	It has been the concern both the parties to develop the human resource of the ASTU university officials and officials of its affiliated colleges. NPTI – NER stressed the need of “Training Need Assessment” be done for the officials.

2	MoU signed with Mobile Tutor Private Ltd.	26 th June, 2018	The purpose of enabling application-oriented course contents for university students pursuing Engineering courses.
3	MoU signed with State of Assam under Technical Education Quality Improvement Programme Phase III	13 th August, 2018	The objective of Technical Education Quality Improvement Project III is to improve quality and equity in selected engineering education institutes and improve the efficiency of the engineering education system.
4	MoU signed with Tool Room and Training Centre (TRTC), Guwahati	15 th November, 2018	Common interest in education and training and social activities, considerable advantage may be gained from their pursuit on a collaborative basis in the fields of education and training.
5	MoU signed with Cambridge Assessment English	22 nd November, 2018	To improve the English language standards of its students and English teaching standards of its teachers.
6	MoU signed with Information and Library Network Centre (INFLIBNET)	24 th October, 2019	The MoU defines responsibilities, liabilities and commitments of the institutions involved to ensure proper system implementation, to meet the objectives pertaining to submission and access to Electronic Theses and Dissertations as envisaged by the UGC.
7	MoU signed with CIT Kokrajhar	29 th November, 2019	Enhancing the teaching and research experiences of

			<p>students and faculty in both the institutions in order to improve upon the quality of human resources available especially in Assam and the North Easter region of India.</p> <p>Facilitating joint collaborative work between students and faculty of the two institutions and registration or research scholars of CIT in Assam Science and Technology University as per the University Rules and Regulations.</p>
8	MoU signed with Srimanta Sankardev University of Health Science, Kahilipara	7 th February, 2020	<p>To promote and enhance cooperation in education, research, technology transfer, man power training, curriculum development and other activities of the universities. To exchange views and suggestions for improvement of quality education. To promote research and continuing education activities between the two Universities. To promote academic exchange of faculty and students, joint research programme between the two universities.</p>
9	MoU signed with Electronics & ICT Academy IIT, Guwahati	18 th February, 2020	<p>Fields of training, education, research and development and as a contribution to increased national cooperation.</p>

10	MoU signed with RUDN University (Peoples' Friendship University of Russia)	20 th July, 2020.	Intending to strengthen cooperation in the field of science, technology and education, acknowledging importance of partnership based on the principles of voluntary participation, equality, common good and reciprocity,
11	MoU between ASTU and National Institute of Technology, Arunachal Pradesh	21 st August, 2020	Desiring to promote co-operation through Research Collaboration, Student and Faculty Exchange etc.

4. Status of 12(B) application :

The university is planning to apply for 12(B) status of UGC Act 1956 for the benefit of the university and the affiliated colleges. The process was started, and the university fulfils all the requirement of 12(B) other than permanent faculty. The energy engineering department and other engineering departments are planned and government has been approached for creation of permanent positions of five departments at Post Graduate level.

The university will be able to get 12(B) status of UGC Act 1956 only if the faculty positions are created and filled.

The university has obtained AICTE approval for B. Tech (Energy Engineering) and M.Tech (Energy Engineering) course recently for the year 2020-2021.

REPORT OF CONTROLLER OF EXAMINATIONS SECTION

This report contains the statistical data of even semester, 2019 results of all programmes of all affiliated institutions and graduation statistics for year 2019. The statistical data of Combined Entrance Examination (CEE) 2019, Joint Lateral Entry Examination (JLEE), 2019 and Joint MCA Entrance Examination (JMEE), 2019, are enclosed in this report.

The report contains

- ✓ The statistical result data of even semester end term examinations, 2019.
- ✓ Course wise graduation statistics for year 2019.
- ✓ The statistical report of Combined Entrance Examination (CEE) 2019 examination.
- ✓ The statistical report of Joint Lateral Entry Examination (JLEE) 2019 examination.
- ✓ The statistical report of Joint MCA Entrance Examination (JMEE) 2019 examination.

The data is presented before the Hon'ble members of the court.

Semester-Wise Result Statistics for Year : 2019

College	program	Semester	Exam Type	Appeared	Passed	Pass %
NITS, Mirza	B.Tech	2	Repeater	81	52	64.2
NITS, Mirza	B.Tech	4	Repeater	95	29	30.53
NITS, Mirza	B.Tech	6	Regular	29	20	68.97
NITS, Mirza	B.Tech	6	Repeater	73	41	56.16
NITS, Mirza	B.Tech	8	Regular	54	37	68.52
NITS, Mirza	B.Tech	8	Repeater	31	12	38.71
RSET, Guwahati	B.Tech	2	Repeater	208	69	33.17
RSET, Guwahati	B.Tech	4	Repeater	279	108	38.71
RSET, Guwahati	B.Tech	6	Regular	199	99	49.75
RSET, Guwahati	B.Tech	6	Repeater	154	57	37.01
RSET, Guwahati	B.Tech	8	Regular	141	97	68.79
RSET, Guwahati	B.Tech	8	Repeater	78	28	35.9
GIMT, Azara	B.Tech	2	Regular	224	89	39.73
GIMT, Azara	B.Tech	2	Repeater	343	131	38.19
GIMT, Azara	B.Tech	4	Regular	255	150	58.82

GIMT, Azara	B.Tech	4	Repeater	369	151	40.92
GIMT, Azara	B.Tech	6	Regular	348	218	62.64
GIMT, Azara	B.Tech	6	Repeater	220	96	43.64
GIMT, Azara	B.Tech	8	Regular	365	313	85.75
GIMT, Azara	B.Tech	8	Repeater	74	32	43.24
GIMT, Azara	BBA	2	Regular	7	6	85.71
GIMT, Azara	BCA	2	Regular	29	24	82.76
GIMT, Azara	BCA	2	Repeater	1	1	100
GIMT, Azara	BCA	4	Regular	8	5	62.5
GIMT, Azara	M.Tech	2	Regular	4	4	100
GIMT, Azara	M.Tech	4	Regular	4	4	100
GIMT, Azara	MBA	2	Regular	36	29	80.56
GIMT, Azara	MBA	2	Repeater	2	2	100
GIMT, Azara	MBA	4	Regular	22	21	95.45
GIMT, Azara	MBA	4	Repeater	1	1	100
GIMT, Azara	MCA	2	Regular	25	15	60
GIMT, Azara	MCA	2	Repeater	4	0	0
GIMT, Azara	MCA	4	Regular	25	22	88
GIMT, Azara	MCA	4	Repeater	5	4	80
GIMT, Azara	MCA	6	Regular	13	13	100
GIMT, Tezpur	B.Tech	2	Regular	40	22	55
GIMT, Tezpur	B.Tech	2	Repeater	98	65	66.33
GIMT, Tezpur	B.Tech	4	Regular	101	61	60.4
GIMT, Tezpur	B.Tech	4	Repeater	88	36	40.91
GIMT, Tezpur	B.Tech	6	Regular	96	52	54.17
GIMT, Tezpur	B.Tech	6	Repeater	54	19	35.19
GIMT, Tezpur	B.Tech	8	Regular	91	75	82.42
GIMT, Tezpur	B.Tech	8	Repeater	37	17	45.95
GIPS, Azara	B. Pharm	2	Regular	96	75	78.13
GIPS, Azara	B. Pharm	2	Repeater	55	30	54.55
GIPS, Azara	B. Pharm	4	Regular	104	72	69.23
GIPS, Azara	B. Pharm	4	Repeater	26	14	53.85

GIPS, Azara	B. Pharm	6	Regular	63	47	74.6
GIPS, Azara	B. Pharm	6	Repeater	14	6	42.86
GIPS, Azara	B. Pharm	8	Regular	63	54	85.71
GIPS, Azara	B. Pharm	8	Repeater	6	1	16.67
GIPS, Azara	M. Pharm	2	Regular	13	13	100
GIPS, Azara	M. Pharm	4	Regular	10	10	100
Assam Engineering College	B.E.	2	Repeater	155	90	58.06
Assam Engineering College	B.E.	4	Regular	441	251	56.92
Assam Engineering College	B.Tech	2	Regular	399	265	66.42
Assam Engineering College	B.Tech	2	Repeater	1	1	100
Assam Engineering College	M.E.	2	Repeater	6	4	66.67
Assam Engineering College	M.E.	4	Regular	22	22	100
Assam Engineering College	M.Tech	2	Regular	58	34	58.62
Assam Engineering College	MCA	2	Regular	30	18	60
Assam Engineering College	MCA	2	Repeater	13	6	46.15
Assam Engineering College	MCA	4	Regular	17	15	88.24
Jorhat Engineering College	B.E.	2	Repeater	125	30	24
Jorhat Engineering College	B.E.	4	Regular	329	216	65.65
Jorhat Engineering College	B.Tech	2	Regular	308	219	71.1
Jorhat Engineering College	B.Tech	2	Repeater	3	0	0
Jorhat Engineering College	M.Tech	2	Regular	30	25	83.33
Jorhat Engineering College	MCA	2	Regular	26	23	88.46
Jorhat Institute of Science & Technology	B.E.	2	Repeater	107	26	24.3
Jorhat Institute of Science & Technology	B.E.	4	Regular	204	124	60.78
Jorhat Institute of Science & Technology	B.Sc. in Chemistry	2	Regular	33	23	69.7
Jorhat Institute of Science & Technology	B.Sc. in Information Technology	2	Regular	59	30	50.85
Jorhat Institute of Science & Technology	B.Sc. in Mathematics	2	Regular	38	31	81.58

Jorhat Institute of Science & Technology	B.Sc. in Physics	2	Regular	26	19	73.08
Jorhat Institute of Science & Technology	B.Tech	2	Regular	165	98	59.39
Jorhat Institute of Science & Technology	B.Tech	2	Repeater	1	1	100
Jorhat Institute of Science & Technology	M.Sc in Chemistry	2	Regular	19	15	78.95
Jorhat Institute of Science & Technology	M.Sc in Mathematics	2	Regular	13	12	92.31
Jorhat Institute of Science & Technology	M.Sc in Physics	2	Regular	20	18	90
Bineswar Brahma Engineering College, Kokrajhar	B.E.	2	Repeater	75	34	45.33
Bineswar Brahma Engineering College, Kokrajhar	B.E.	4	Regular	111	33	29.73
Bineswar Brahma Engineering College, Kokrajhar	B.Tech	2	Regular	135	34	25.19
Guwahati College of Architecture and Planning, Azara	B. Arch	2	Regular	22	10	45.45
Guwahati College of Architecture and Planning, Azara	B. Arch	2	Repeater	41	21	51.22
Guwahati College of Architecture and Planning, Azara	B. Arch	4	Regular	18	14	77.78
Guwahati College of Architecture and Planning, Azara	B. Arch	4	Repeater	35	9	25.71
Guwahati College of Architecture and Planning, Azara	B. Arch	6	Regular	30	12	40

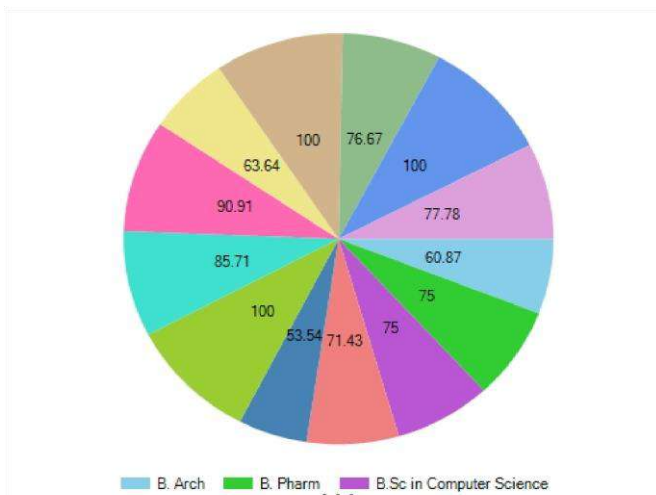
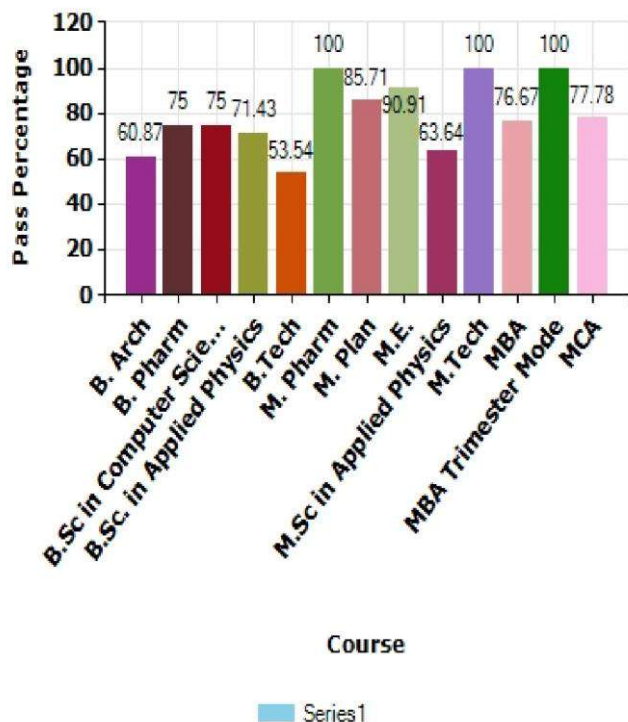
Guwahati College of Architecture and Planning, Azara	B. Arch	6	Repeater	14	10	71.43
Guwahati College of Architecture and Planning, Azara	B. Arch	8	Regular	20	12	60
Guwahati College of Architecture and Planning, Azara	B. Arch	8	Repeater	8	7	87.5
Guwahati College of Architecture and Planning, Azara	M. Plan	2	Regular	5	3	60
Guwahati College of Architecture and Planning, Azara	M. Plan	4	Regular	7	7	100
Central Institute of Technology, Kokrajhar	B. Des	2	Regular	21	14	66.67
Central Institute of Technology, Kokrajhar	B. Des	2	Repeater	5	3	60
Central Institute of Technology, Kokrajhar	B. Des	4	Regular	19	17	89.47
Central Institute of Technology, Kokrajhar	B. Des	4	Repeater	1	1	100
Central Institute of Technology, Kokrajhar	B. Des	6	Regular	15	13	86.67
Brahmaputra College , Guwahati	B.Sc in Computer Science	2	Regular	6	4	66.67
Brahmaputra College , Guwahati	B.Sc in Computer Science	6	Regular	4	4	100
Brahmaputra College , Guwahati	B.Sc. in Applied Physics	2	Regular	6	6	100
Brahmaputra College , Guwahati	B.Sc. in Applied Physics	2	Repeater	4	4	100
Brahmaputra College , Guwahati	B.Sc. in Applied Physics	4	Regular	7	6	85.71

Brahmaputra College , Guwahati	B.Sc. in Applied Physics	4	Repeater	2	2	100
Brahmaputra College , Guwahati	B.Sc. in Applied Physics	6	Regular	7	6	85.71
Brahmaputra College , Guwahati	B.Sc. in Chemistry	2	Repeater	7	6	85.71
Brahmaputra College , Guwahati	B.Sc. in Chemistry	4	Regular	10	5	50
Brahmaputra College , Guwahati	B.Sc. in Zoology	2	Regular	8	5	62.5
Brahmaputra College , Guwahati	B.Sc. in Zoology	2	Repeater	7	6	85.71
Brahmaputra College , Guwahati	B.Sc. in Zoology	4	Regular	20	19	95
Brahmaputra College , Guwahati	M.Sc in Applied Physics	2	Regular	7	7	100
Brahmaputra College , Guwahati	M.Sc in Applied Physics	4	Regular	11	7	63.64
Brahmaputra College , Guwahati	M.Sc in Zoology	2	Regular	10	10	100
RSB, Guwahati	MBA	2	Repeater	5	5	100
RSB, Guwahati	MBA	4	Repeater	2	2	100
Assam Institute of Management , Guwahati	MBA Trimester Mode	2	Regular	59	59	100
Assam Institute of Management , Guwahati	MBA Trimester Mode	4	Regular	58	58	100
Assam Science and Technology University	M.Tech	2	Regular	8	8	100
Netes Institute of Pharmaceutical Science, Mirza	B. Pharm	2	Regular	57	23	40.35
Netes Institute of Pharmaceutical Science, Mirza	B. Pharm	2	Repeater	42	11	26.19
Netes Institute of Pharmaceutical Science, Mirza	B. Pharm	4	Regular	63	27	42.86

NERIM, Guwahati	M.Sc. in Computer Science	2	Regular	4	3	75
NERIM, Mangaldoi	B.Sc. in Physics	2	Regular	2	1	50
NERIM, Mangaldoi	B.Sc. in Physics	4	Regular	3	2	66.67
NERIM, Mangaldoi	B.Sc. in Zoology	2	Regular	5	2	40
NERIM, Mangaldoi	B.Sc. in Zoology	2	Repeater	9	9	100
NERIM, Mangaldoi	B.Sc. in Zoology	4	Regular	17	8	47.06
Barak Valley Engineering College, Karimganj	B.E.	2	Repeater	32	28	87.5
Barak Valley Engineering College, Karimganj	B.E.	4	Regular	86	43	50
Barak Valley Engineering College, Karimganj	B.Tech	2	Regular	39	19	48.72
Scholars Institute of Technology and Management, Guwahati	B.E.	2	Repeater	8	2	25
Scholars Institute of Technology and Management, Guwahati	B.E.	4	Regular	31	11	35.48
Scholars Institute of Technology and Management, Guwahati	B.Tech	2	Regular	1	1	100
Scholars Institute of Technology and Management, Guwahati	B.Tech	2	Repeater	1	0	0
Pratiksha Institute of Pharmaceutical Sciences	B. Pharm	2	Regular	55	34	61.82
Golaghat Engineering College	B.Tech	2	Regular	92	66	71.74

Course-Wise Graduation Statistics for Year : 2019

Program	Appeared	Passed	Pass%
B. Arch	23	14	60.87
B. Pharm	72	54	75
B.Sc in Computer Science	4	3	75
B.Sc. in Applied Physics	7	5	71.43
B.Tech	1044	559	53.54
M. Pharm	10	10	100
M. Plan	7	6	85.71
M.E.	22	20	90.91
M.Sc in Applied Physics	11	7	63.64
M.Tech	4	4	100
MBA	30	23	76.67
MBA Trimester Mode	58	58	100
MCA	18	14	77.78



STATISTICAL REPORT OF JLEE-2019 EXAMINATION

The **JLEE 2019** examination was conducted successfully on 7th July, 2019 in two centres namely Guwahati and Jorhat. The result of JLEE-2019 was declared on 16th July, 2019. Results was published in the website: www.astu.ac.in.

The Statistics of JLEE 2019 examination is as follows;

JLEE 2019

Table I:

Sl. No.	No. of Candidates Enrolled	No. of Candidates Appeared	No. of Candidates Absent	Percentage of Present Candidates	Percentage of Absent Candidates
1	1109	1040	69	93.78%	6.22%

Table II:

Sl. No.	No. of Male Candidates Appeared	No. of Female Candidates Appeared	Percentage of Male Candidate	Percentage of Female Candidate
1	761	279	73.17%	26.83%

Stream applied	Enrolled	Appeared
CHEMICAL ENGINEERING	37	34
CIVIL ENGINEERING	445	416
COMPUTER ENGINEERING	76	70
ELECTRICAL ENGINEERING	201	193
ELECTRONICS AND TELECOMMUNICATION ENGINEERING	97	91
INDUSTRIAL AND PRODUCTION ENGINEERING	3	3
INSTRUMENTATION ENGINEERING	33	30
MECHANICAL ENGINEERING	202	189
POWER ELECTRONICS & INSTRUMENTATION ENGINEERING	15	14
TOTAL	1109	1040

STATISTICAL REPORT OF JMEE-2019 EXAMINATION

The **JMEE 2019** examination was conducted successfully on 7th July, 2019 in two centres namely Guwahati and Jorhat. The result of JMEE-2019 was declared on 16th July, 2019. Results were published in the website: www.astu.ac.in.

The Statistics of JMEE 2019 examination is as follows:

JMEE 2019

Table I:

Sl. No.	No. of Candidates Enrolled	No. of Candidates Appeared	No. of Candidates Absent	Percentage of Present Candidates	Percentage of Absent Candidates
1	262	238	24	90.84%	9.16%

Table II:

Sl. No.	No. of Male Candidates Appeared	No. of Female Candidates Appeared	Percentage of Male Candidate	Percentage of Female Candidate
1	160	78	67.22%	32.78%

STATISTICAL REPORT OF CEE 2019 EXAMINATION

The CEE 2019 examination was conducted successfully on 28th April, 2019 in nine centres throughout the State of Assam namely: Guwahati, Nalbari, Bongaigaon, Nagaon, Tezpur, Jorhat, Dibrugarh, Lakhimpur, Silchar. The result of CEE 2019 was declared on 10th May, 2019 at 11 a.m. in the website: www.astu.ac.in.

The Statistics of CEE 2019 examination is as follows:

Table I:

Sl. No.	No. of Candidates Enrolled	No. of Candidates Appeared	No. of Candidates Absent	Percentage of Present Candidates	Percentage of Absent Candidates
1	10182	9246	936	90.80%	9.20%

Table II:

Sl No.	No. of male candidates Appeared	No. of female candidates Appeared	No. of Transgender candidates appeared	Percentage of male candidates	Percentage of female candidates	Percentage transgender candidates
1	6566	2677	3	71.01%	28.95%	0.03%

ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

FINANCIAL ESTIMATES

For the Financial Year 2020-2021

AND

REVISED FINANCIAL ESTIMATES

For the Financial Year 2019-2020



ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

www.astu.ac.in

(A State University of Government of Assam constituted by "Assam Science and Technology University Act, 2009")

Tetelia Road, Jalukbari, Guwahati -781013

Nothing Contained in these Estimates should be Construed to Convey any Sanction or cited as an authority for incurring any Expenditure or undertaking any Liability. Competent Sanction is required to be obtained Invariably in advance



ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

BUDGET MEMORANDUM

2020-21

Introduction

The Budget consist of the following 4 (four) parts:

Part – I: Revenue:

All revenue receipt and payment either recurring of non-recurring nature are accommodated in this part that reflects the financial position of the University. The mobilization of resources of the University is also reflected in this part of the budget.

This budget is prepared to submit the demand for incorporation of the fund under the Head of Account “2203-Technical Education. -00-No Sub Major Head-001-Direction & Administration-0161-General-000-No Sub Head-31-GIA (Salary)-99-Others” under EE during the year 2020-21.

Part – II: Capital:

Development assistance receipt from the state Govt. of Assam, various schemes initiated from the Govt. of Assam are dealt in this part.

This budget is prepared to submit the demand for incorporation of the fund under the Head of Account “2203-Technical Education. -00-001-Direction and Administration-0161-General-828-Assam Science & Technology University – 32 Grants-in-Aid (Non – Salary)-99-Others” under SOPD-G during the year 2020-2021.

Part – III: Earmarked (Special) Fund:

This part includes receipt and payment of the grants received for specific purposes from the U.G.C., Govt. of Assam, C.S.I.R., N.E.C. and such other bodies. The University is not receiving any Grant from the above mentioned sources. At present the university has no such funding and therefore University is not preparing this budget.

However, efforts has been done for shifting its status of registration under 2(f) to 12(B) so that University will get Grants from the UGC.

Part – IV: Debts, Deposit and Advance:

This part includes the receipts and payment on account of Loans and Advances offered to the University employees, deduction made at source, NPS, Security deposit and retirement benefit fund.

A BRIEF NOTE ON THE ANNUAL FINANCIAL ESTIMATES OF THE UNIVERSITY FOR THE YEAR 2020-21

FOR APPROVAL

In pursuance of section 27 (a) of the Assam Science and Technology University Act, 2009 (as amended in the year 2011), the Annual financial estimates of the University are to be presented every year. The Budget is submitted before the Finance Committee for examination and recommendation for placing before E.C and University Court Meeting.

The Financial estimates and the Revised Estimates (Budget) for both Revenue (Part-I) and Capital (Part-II) for the Financial Year 2020-2021 have been placed for its approval.

Particulars	Part – I: Revenue				Part – II: Capital			
	Actual 2018-19	Estimates 2019-20	Revised Estimates 2019-20	Estimates 2020-21	Actual 2018-19	Estimates 2019-20	Revised Estimates 2019-20	Estimates 2020-21
Total receipt	65,581,855.00	68,577,608.00	77,767,300.00	85,839,040.00	34,650,535.00	112,189,660.00	62,020,087.00	146,365,142.00
Total Payment	52,774,092.00	56,677,087.00	63,707,159.00	78,616,387.00	32,624,034.00	139,691,100.00	109,606,603.00	161,128,648.00
Surplus (+) / Deficit (-)	12,807,763.00	11,900,521.00	14,060,141.00	7,222,653.00	2,026,501.00	-27,501,440.00	-47,586,516.00	-14,763,506.00

Particulars	Part – III: Earmarked (Sp) Fund				Part – IV: Debts, Deposit & Advance			
	Actual 2018-19	Estimates 2019-20	Revised Estimates 2019-20	Estimates 2020-21	Actual 2018-19	Estimates 2019-20	Revised Estimates 2019-20	Estimates 2020-21
Total receipt	No Requirement				14,641,452.00	16,005,800.00	16,005,800.00	17,606,380.00
Total Payment					16,341,005.00	25,744,903.00	25,964,903.00	28,333,880.00
Surplus (+) / Deficit (-)					-1,699,553.00	-9,739,103.00	-9,959,103.00	-10,727,500.00

SUMMARY OF PART-I (REVENUE)

SUMMARY OF RECEIPT					
SL NO	HEAD OF ACCOUNTS	ACTUAL FOR 2018-2019 (In Rupees)	ESTIMATES FOR 2019-2020	REVISED ESTIMATES FOR 2019-20	ESTIMATES FOR 2020-21
		(IN RUPEES)			
1		3	4	5	6
1	I. GRANTS FROM GOVT. OF ASSAM:-				
2	Statutory recurring grant	22,000,000.00	31,567,408.00	27,000,000.00	36,069,000.00
3	Supplementary Grant against sort fall of Salary component & other recurring grant	4,075,000.00		7,687,000.00	
4	Anticipated receipt from UGC through State Govt. for UGC arrear revised pay scale	-			
5	Anticipated Additional Grants towards revised pay scale under 7 th Pay Commission (UGC & CPC)	-			
6	Anticipated receipt towards CPC Arrear Revised pay (under 7 th Pay Commission)				
7	Receipt from Govt. of India				
8	INCOME FROM COMMON SERVICE	4,159,991.00	3,078,100.00	3,363,000.00	5,833,300.00

9	FEEES FROM AFFILIATED COLLEGES OF ASTU	26,243,929.00	20,020,000.00	28,542,000.00	31,356,200.00
10	IN-CAMPUS RESEARCH PROGRAM AT ASTU	421,200.00	1,875,000.00	880,000.00	790,500.00
11	ENERGY ENGINEERING SYSTEMS (M.TECH. IN ENERGY ENGINEERING)	590,100.00	1,746,300.00	1,816,300.00	672,340.00
12	CENTRAL RESEARCH HUB	170,700.00	-	110,000.00	121,000.00
13	COMBINED ENTRANCE EXAMINATION (CEE) & (JMEE/JLEE) EXAMINATION	7,920,935.00	8,500,000.00	8,369,000.00	9,205,900.00
14	PROPOSED POST GRADUATE IN-CAMPUS PROGRAM	-	1,790,800.00	-	1,790,800.00
15	TOTAL RECEIPT	65,581,855.00	68,577,608.00	77,767,300.00	85,839,040.00

SUMMARY OF EXPENDITURE					
SL NO	HEAD OF ACCOUNTS	ACTUAL FOR 2018-2019 (In Rupees)	ESTIMATES FOR 2019-2020	REVISED ESTIMATES FOR 2019-20	ESTIMATES FOR 2020-21
		(IN RUPEES)			
	1	3	4	5	6
16	SALARIES	25,984,888.00	19,271,300.00	28,461,200.00	32,190,687.00
17	IN-CAMPUS RESEARCH PROGRAM AT ASTU	299,000.00	0.00	1,000,000.00	1,500,000.00
18	ENERGY ENGINEERING SYSTEMS (M.TECH. IN ENERGY ENGINEERING)	19,500.00	3,301,200.00	3,651,200.00	3,805,060.00
19	PROPOSED POST GRADUATE IN-CAMPUS PROGRAM	0.00	4,466,000.00	0.00	7,966,000.00
20	CONTROLLER OF EXAMINATIONS (FOR CONDUCTION OF EXAMINATIONS)	14,964,797.00	16,018,500.00	18,110,900.00	19,922,140.00
21	CONTRIBUTION TO RETIREMENT BENEFIT FUND	2,477,773.00	3,625,927.00	3,350,000.00	3,535,000.00
22	PRE EXAMINATION TRAINING AND PLACEMENT	0.00	718,160.00	0.00	0.00
23	COMMON SERVICE EXPENSES	1,031,908.00	3,380,000.00	3,150,000.00	3,775,000.00
24	CEE, JMEE & JLEE EXPENDITURE	7,996,226.00	5,896,000.00	5,983,859.00	5,922,500.00
25	TOTAL EXPENDITURE	52,774,092.00	56,677,087.00	63,707,159.00	78,616,387.00

SUMMARY OF PART-I (REVENUE)

SUMMARY OF RECEIPT					
SL NO	HEAD OF ACCOUNTS	ACTUAL FOR 2018-2019 (In Rupees)	ESTIMATES FOR 2019-2020	REVISED ESTIMATES FOR 2019-20	ESTIMATES FOR 2020-21
		(IN RUPEES)			
	1	3	4	5	6
1	GRANTS FROM GOVT. OF ASSAM:-				
2	State Govt. PLAN GRANT	25,000,000.00	0.00	10,653,000.00	52,146,600.00
3	GRANT receive from Director of Higher Education under AHIS				
4	Anticipated from Govt. of Assam (Academic Block-II)		51,800,000.00	25,000,000.00	41,895,250.00
5	Anticipated from Govt. of Assam (TNEIF)		50,000,000.00	10,000,000.00	40,000,000.00
6	GIA – Curtin University GAP- I				
7	GIA for International Experience for ASTU Academic and Technical staff by Curtin University, Australia				
8	Assam Science Technology and Environment Council (ASTEC)			206,600.00	52,000.00
9	Receipt from Govt. of India NLCPR				
10	Misc. Receipt (AISHE)/MP Quota			5,000,000.00	
11	CONSULTANCY SERVICES				
12	DEPRICIATION FUND FROM EXISTING CAPITAL ASSETS	5,339,815.00	2,959,660.00	6,330,487.00	6,961,292.00
13	MISC. RECEIPT	4,310,720.00	7,430,000.00	4,830,000.00	5,310,000.00
14	TOTAL RECEIPTS	34,650,535.00	112,189,660.00	62,020,087.00	146,365,142.00

SUMMARY OF EXPENDITURE					
SL NO	HEAD OF ACCOUNTS	ACTUAL FOR 2018-2019 (In Rupees)	ESTIMATES FOR 2019-2020	REVISED ESTIMATES FOR 2019-20	ESTIMATES FOR 2020-21
		(IN RUPEES)			
	1	3	4	5	6
15	CONSTRUCTION WORKS	11,483,760.00	106,400,000.00	57,806,600.00	84,807,250.00
16	FURNITURE	1,516,524.00	2,728,500.00	8,728,500.00	9,481,350.00
17	OFFICE EQUIPMENT	1,778,980.00	2,863,000.00	6,803,000.00	4,149,300.00
18	MINOR LABORATORY EQUIPMENT/Ph. D CLASS	1,140,891.00	1,300,000.00	5,840,000.00	6,284,000.00
19	BOOKS & JOURNALS	44,914.00	2,000,000.00	2,000,000.00	
20	OFFICE VEHICLE	2,507,638.00	1,306,000.00	2,720,000.00	2,899,000.00

21	COMPUTER & EDP EQUIPMENTS	1,620,800.00	2,100,800.00	1,900,000.00	2,030,000.00
22	AIR CONDITION & ASSESSORIES	218,144.00	822,800.00	1,244,500.00	1,333,950.00
23	DEVELOPMENT OF CAMPUS - II	0.00	0.00	0.00	3,443,298.00
24	SEMEINAR HALL & GUEST HOUSE	0.00	0.00	0.00	5,500,000.00
25	CENTRAL EVALUATION HALL	0.00	0.00	0.00	5,600,000.00
26	EMERGENCY BLOCK	0.00	0.00	0.00	1,120,000.00
27	CENTRAL LIBRARY SYSTEM	0.00	0.00	0.00	2,350,000.00
28	ENGINEERING DEPARTMENT	0.00	0.00	0.00	500,000.00
29	COMMON SERVICE	3,411,624.00	4,400,000.00	6,470,000.00	7,271,000.00
30	COLLABORATION FOR PROJECT COST CURTIN UNIVERSITY	2,458,864.00	200,000.00	200,000.00	200,000.00
31	EXPENDITURE UNDER CONSULTANCY SERVICE	0.00	40,000.00	0.00	0.00
32	TRAVELLING ALLOWANCE	0.00	500,000.00	500,000.00	500,000.00
33	ELECTRIC SUPPLY SERVICE	455,130.00	2,000,000.00	2,000,000.00	2,000,000.00
34	WATER SUPPLY SERVICE	0.00	450,000.00	450,000.00	450,000.00
35	XXI EXAMINATION SOFTWARE SYSTEM SERVICE	0.00	850,000.00	850,000.00	850,000.00
36	PRINTING & STATIONARY	1,138,794.00	1,000,000.00	1,000,000.00	1,000,000.00
37	RESEARCH PROGRAM	9,500.00	995,000.00	1,045,000.00	1,545,000.00
38	ENERGY ENGINEERING SYSTEMS (M.TECH IN ENERGY ENGINEERING)	0.00	1,710,000.00	1,710,003.00	2,210,000.00
39	COST OF INTRODUCTION OF NEW COURSE	0.00	900,000.00	0.00	1,400,000.00
40	XXVI OTHER ACADEMIC AND ADMINISTRATIVE EXPENSES	3,422,233.00	5,160,000.00	5,410,000.00	5,795,000.00
41	MISCELLANEOUS	1,416,238.00	1,965,000.00	2,929,000.00	3,084,500.00
42	SEMEINAR HALL & GUEST HOUSE	0.00	0.00	0.00	1,870,000.00
43	CENTRAL EVALUATION HALL	0.00	0.00	0.00	2,510,000.00
44	EMERGENCY BLOCK	0.00	0.00	0.00	945,000.00
45	TOTAL	32,624,034.00	139,691,100.00	109,606,603.00	161,128,648.00

PART – I: REVENUE BUDGET (ACTUAL FOR 2018-2019)

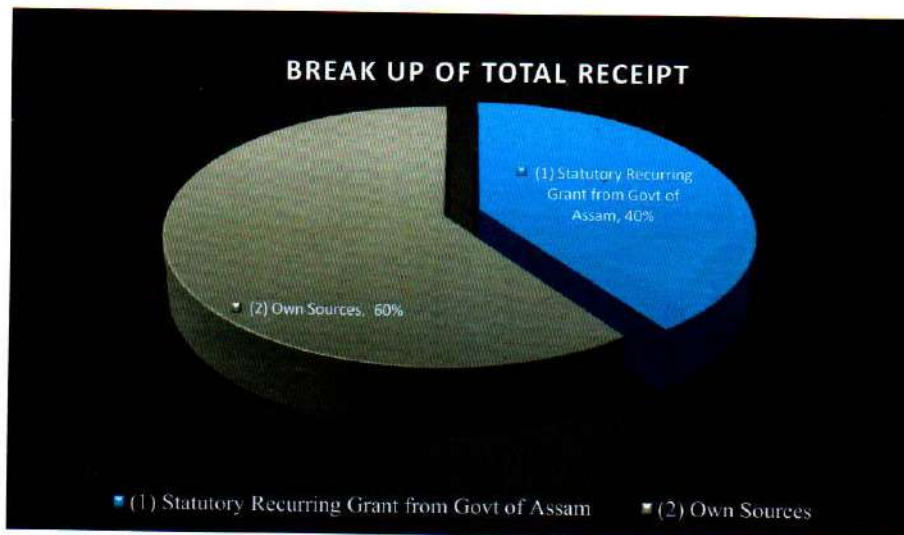
RECEIPT:

As per record total receipt is Rs.6,55,81,855.00 (Rupees Six Crore Fifty Five Lakhs Eighty One Thousand Eight Hundred Fifty Five only) which includes Rs.3,95,06,855.00 (Rupees Three Crore Ninety Five Lakhs Six Thousand Eight Hundred Fifty Five only) from University own sources and Rs.2,20,00,000.00 (Rupees Two Crore Twenty Lakhs Only) towards Grant-In-Aid from the Govt. of Assam, Rs.40,75,000.00 (Rupees Forty Lakhs Seventy Five Thousand only) towards supplementary demand in the total Grants received from the Govt. of Assam for revenue expenditure purpose. The receipts from different colleges against Examination, Registration, Affiliation etc. are included in the University own sources.

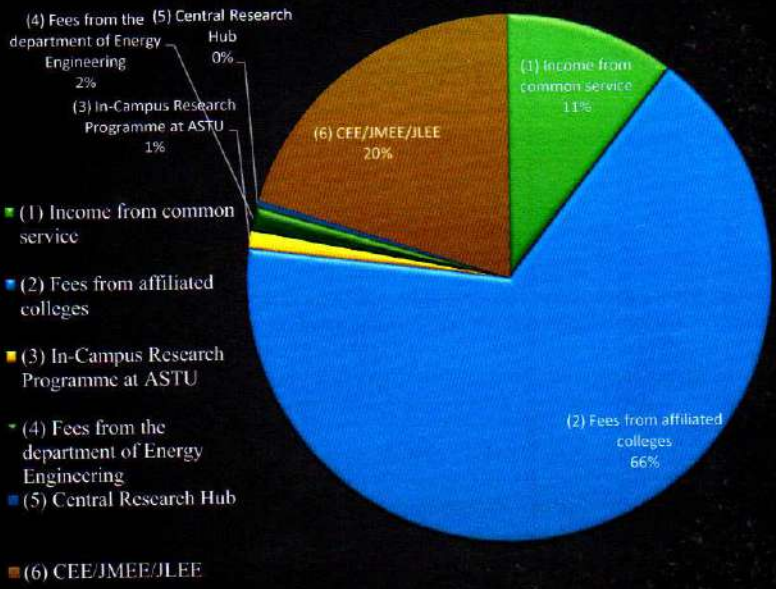
EXPENDITURE:

The total expenditure for the said period amounts is **Rs.5,27,74,092.00** (Rupees Five Crore Twenty Seven Lakhs Seventy Four Thousand Ninety Two Only), thus the position shows excess of receipt over expenditure by Rs. 1,28,07,763.00 (Rupees One Crore Twenty Eight Lakhs Seven Thousand Seven Hundred Sixty Three only). The examination fee received during the end part of the year to be utilized in the subsequent year for payment of University's developmental activities and other recurring expenditure & retirement benefit scheme of the University.

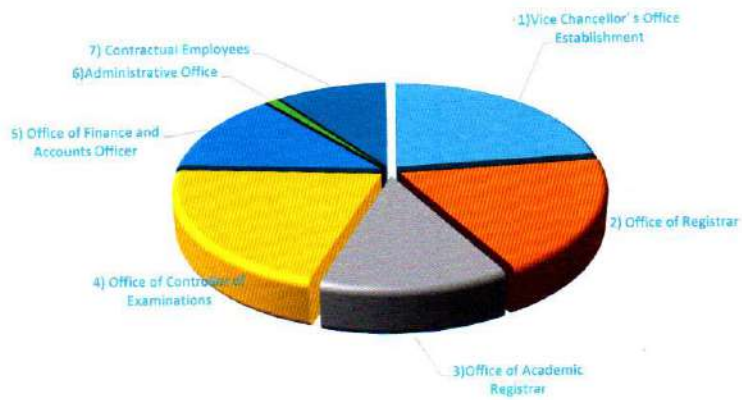
The analysis and breakup of Receipt and Expenditure is shown in Pie Chart below:
2018-19

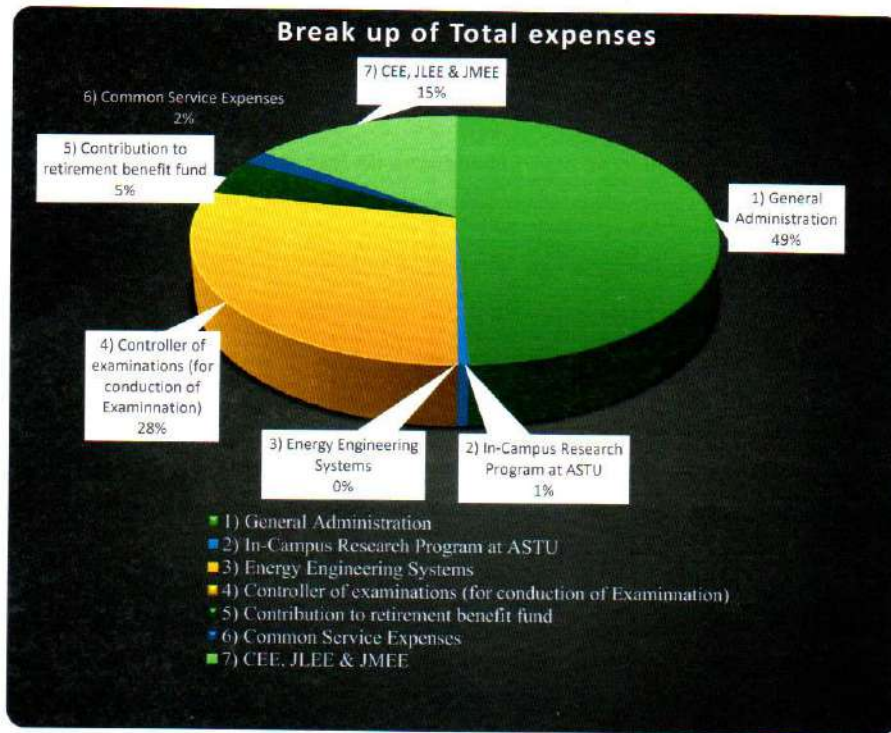


BREAKUP OF THE RECEIPTS FROM OWN SOURCES

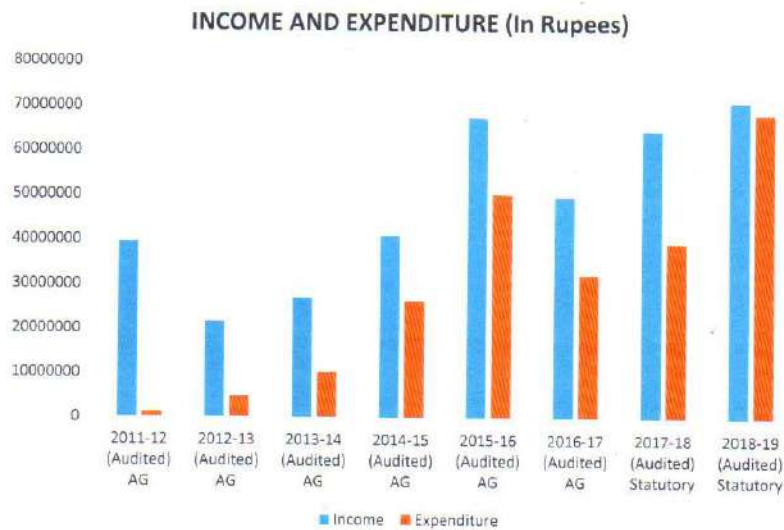


BREAK UP OF SALARY COMPONENT

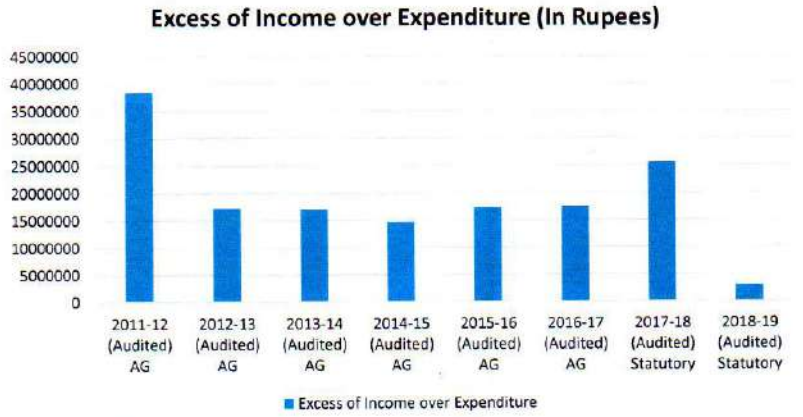




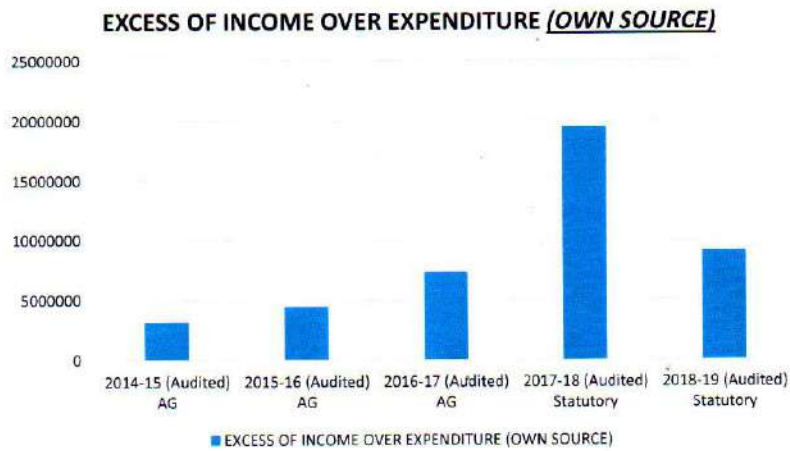
A.) PICTORIAL REPRESENTATION OF THE INCOME AND EXPENDITURE OF THE UNIVERSITY, SINCE INCEPTION: -



B.) PICTORIAL REPRESENTATION OF EXCESS OF INCOME OVER EXPENDITURE OF THE UNIVERSITY SINCE INCEPTION :-



C.) PICTORIAL REPRESENTATION OF EXCESS OF INCOME OVER EXPENDITURE (OWN SOURCE) OF THE UNIVERSITY SINCE INCEPTION



REVISED REVENUE ESTIMATE FOR 2019-20

As per record total revised estimates for 2019-20 amounts to **Rs. 3.47 Cr** (Rupees Three Crore Forty Seven Lakhs only) approximately under revenue budget along with proposed supplementary demand grant to the Govt. of Assam. **Rs.4.31 Cr** (Rupees Four Crore Thirty One Lakhs Only) is estimated under University Own Sources by way of fee collection from the affiliated colleges as well as other efforts initiated by the University.

The expenditure for the said period amounts to **Rs.6.37 Cr**, thus the position shows excess of receipt over expenditure by **Rs.1.41 Cr**. The examination fee received during the end part of the year is to be utilized in the subsequent year for payment of retirement benefit and partly for University's development activities.

SCHEMES FOR INTERNAL RESOURCES MOBILISATION

CEE Exam: From the Year 2019-2020 Government of Assam has been entrusted to conduct CEE Examination vide Govt. of Assam notification NO. ATE.62/2009/Pt/82, dated 3rd July, 2017. The CEE, 2019 Examination and JLMEE/JMEE, 2019 Examinations has been conducted successfully. The status of receipts & expenditure are as below:-

Sl No	Examinations	Receipt	Expenditure	Surplus
1	CEE, 2019	66,03,350.00	46,75,383.00	19,27,967.00
2	JLEE/JMEE, 2019	13,69,000.00	12,51,188.00	1,17,812.00
	Total	79,72,350.00	59,26,571.00	20,45,779.00

BUDGET (ESTIMATE) FOR 2020-21

The Budget estimate for 2020-21 under capital budget has been prepared by including the anticipated receipts from the State Govt. and internal resources of **Rs. 14.64 Cr** (Rupees Fourteen Crore Sixty-Four Lakhs only) approximately and the total expenditure of **Rs.16.11 Cr**. (Rupees Sixteen Crore Eleven Lakhs only) approximately with a deficit of **Rs. 1.48 Cr**. (Rupees One Crore Forty Eight Lakhs only) approximately.

The Budget estimate for 2020-21 under revenue budget is surplus which has been prepared by including the anticipated receipts from the State Govt. and internal resource of **Rs. 8.58 Cr** (Rupees Eight Crore Fifty Eight Lakhs only) approximately and the total expenditure for **Rs. 7.86 Cr** (Rupees Seven Crore Eighty Six Lakhs only) approximately with a surplus of **Rs. 0.72 Cr**. (Rupees Seventy Two Lakhs only) approximately.

REMARKS:

The Budget for the year 2020-21 is prepared keeping in view to make it a balanced budget restricting the recurring expenditure to maximum possible extent of salary component which is enhanced due to yearly increment and D.A. enhancement. With this provision, the Budget shows a surplus of **Rs. 0.72 Cr**. (Rupees Seventy Two Lakhs only) approximately under revenue budget.

It is to be mentioned that this University has not received any amount under capital budget during the year 2019-2020 till date.

Therefore, it is urged before the Government to enhance both Capital & Revenue as proposed in the Part – I & II in reference above.

D.GOSWAMI
FINANCE AND ACCOUNTS OFFICER

SECTION-II**OTHER INFORMATION****I. GRANTS-IN-AID****I. STATUS OF GRANTS-IN-AID UNDER (CAPITAL /REVENUE) BUDGET FROM GOVT. OF ASSAM**

Financial Year	Amount in Rs.		Purpose
	G.I.A Capital (In Lacs)	G.I.A Revenue (In Lacs)	
2011-12	95.00		For construction purpose
2011-12	300.00	Nil	Grants –in-Aid
2012-13	205.00	Nil	Grants –in-Aid
2013-14	205.00	Nil	Grants –in-Aid
	205.00	137.41 (Released in May,2015)	Grants –in-Aid
2014-15	2.991	-	Fund for development of infrastructure and to organize activities.
	99.00	-	Grants –in-Aid towards expenditure on collaboration with the Curtin University for improvement of Technical education in the state.
	0.30	-	Grants received from Director of Higher education for All India Survey on Higher Education
2015-16	-	137.41	Grants –in-Aid (Supplementary Demand)
	101.00	-	Grants –in-Aid towards expenditure on collaboration with the Curtin University for improvement of Technical education in the state.
	100.00	-	
	28.11	-	Grants –in-Aid for international education experience for ASTU Academic and Technical Staff by Curtin University, Australia.
	0.30	-	Grants received from Director of Higher education for All India Survey on Higher Education
2016-17	125.55	150.00	Sanctioned and release against Laboratory setup in the Assam in collaboration with Curtin University, Australia and Curtin University project proposal under Plan for Rs.125.55 Lakhs.
2017-18	100.00	314.48	Sanctioned and released Construction of Academic Building & VC's Residence and towards payment of salaries to the staff of ASTU
2018-19	250.00	260.75	Sanctioned and released towards Construction under TNEIF, other infrastructure grant and payment of salaries to the staff of ASTU
2019-20	-	270.00	1) Rs.270.00 Lakhs has been sanctioned and released towards payment of salaries to the staff.

			ii) Rs.250.00 Lakhs has been sanctioned towards Construction of Academic Building & VC's Residence and release of the same is under process. iii) Rs.100.00 Lakhs proposal under process for sanction towards construction under TNEIF. iv) Rs.50.00 Lakhs has been sanctioned towards other infrastructure grant and release of the same is under process.
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The Govt. of Assam augmented an collaborative program with the Curtin University, Australia which took place on dated 11 December 2014 between the Vice Chancellor, Assam Science and Technology University, Guwahati and Prof. Deborah Terry, Vice Chancellor, Curtin University in the **Project titled: "Improvement of Quality of Higher Education and Research in the state of Assam"**. The status of the project as below.

Stage	Description of the project	Financial Involvement	Remarks
Stage 1	Improvement of quality of Higher Education- Gap Analysis (6 Month) Ref: Invoice No CON-SE-RA-FOE-SH-53416-1	AUD 4,87,000.00 (INR 2,60,00,000.00 approximately)	The ongoing proposal for the Stage 1 is completed. Stage 2 and 3 will be dependent on the success of Stage 1 and subject to the approval of both parties and stage 2 is yet to be completed by visit to Curtin University for further modality of the collaboration.
Stage 2	Detail Study (12 Month) Ref: Invoice No : F01259 dated 13/4/2016	AUD 55,000 (INR 28,11,050.00)	
Stage 3	Implementation (4 Years or Until 1 st Batch on new curriculum graduates)	-	

II. PROPOSAL SUBMITTED TO THE GOVT. OF ASSAM

Financial year 2019-20:

i) Capital amount

a) Incorporated Amount in the budget

The Govt. of Assam budget Incorporated of Rs.4.00 Crore (Rupees Two Crore Fifty Lakhs only) towards infrastructure Grant-In-Aid during the financial year 2019-20. The University has submitted to the Govt. of Assam for sanction and release of the fund towards for the purpose as below mentioned with approval of the Finance Committee vide this office memo No.:

Sl No.	Purpose of the amount.	Amount (Rs)
1	Construction of Academic Building & VC's Residence	2,50,00,000/-
2	Construction under TNEIF	100,00,000/-
3	Other Infrastructure Grant	50,00,000/-

b) **Supplementary Demand:**

Supplementary demand for Capital Expenditure to the tune of Rs.56.53 lacs for the financial year 2019-20 towards Infrastructure Development of ASTU submitted vide letter ASTU/Acctt./9/Plan/12/Vol-IV/4666 dated 25/10/2019 and the same has been incorporated in the Govt. of Assam Budget.

ii) **Revenue Amount**

a) **Incorporated Amount in the budget**

Sl No.	Purpose of the amount	Amount Proposed	Sanctioned & Released
1	Salary submission in the Form "L"	3,15,67,408/-	2,70,00,000/-

b) **Supplementary Demand**

Supplementary demand for Revenue Expenditure to the tune of Rs.76.87 lacs to meet the Salary deficit & other revenue expenditure for the financial year 2019-20 submitted vide letter ASTU/Acctt./9/Non Plan/12 /Voll-III/5744 dated 30/12/2019 and the same has been incorporated in the Govt. of Assam Budget

Financial Year 2020-21

i) **Capital amount**

Sl No	Purpose of the amount	Amount (Rs)
1	Capital Expenditure (Infrastructure)	13,40,41,850/-

ii) **Revenue Amount**

Sl No	Purpose of the amount	Amount (Rs)
1	Revenue Expenditure (Salary in the form "L")	3,60,69,000/-

III. EFFORTS FOR EXTERNAL FUNDING:

Sl No	Project Title	Funding Agency	Project Cost (Rs.)	Remarks
1	Establishment of central Library at Assam Science and Technology University	MPLAD fund of Dr. Manmohan Singh, Hon'ble MP, Rajya Sabha, Assam	Rs.13.71 Crore	Lapsed
2	Proposal for Infrastructure Augmentation in support of Infrastructure Development of Assam Science and Technology University	Tejasvi Navadhitamastu Edu-Infra Funds (TNEIF), Govt. of Assam	Rs.7.00 Crore	Incorporated
3	Plasma Pyrolysis Plant for safe disposal of Municipal Solid Waste (MSW) in Environment Friendly Manner.	Indian Council of Historical Research	Rs.1.70 Crore	Lapsed

4	Project A - Plasma Pyrolysis Plant for safe disposal of Municipal Solid Waste (MSW) in Environment Friendly Manner. Project B – Wind Engineering Research and Computational Facility	Non Lapsable Central Pool of Resources. Scheme to restart in 2018 in a new format.	Rs.4.08 Crore	Lapsed
5	Proposal for Infrastructure Development Under North East Special Infrastructure Development Scheme	North East Special Infrastructure Development Scheme (NESIDS) through Govt. of Assam	Rs.33.00 Crore	Submitted
6	Development and construction of hull structure of boat using bamboo trunk as shell member blended with wooden/steel or bamboo framework	Assam Science Technology and Environment Council (ASTECC)	Rs.2.58 Lakhs	Incorporated & released

IV. STATUS OF MHRD PROJECT (TEQIP-III)

This University applied for TEQIP-III program on 17th February, 2017 to the tune of Rs.27.46 Crore from 2017-18 to 2020. Subsequently, the University qualified the enabling mechanism for component 1.2 (Widening impact through Affiliating Universities (ATUs) in focus states of TEQIP-III with a package of Rs.20.00 crores (Rupees Twenty Crores only). Mention that faculties cannot be hired under section 1.2. Therefore, the request is to Government.

- a) The University has submitted action Plan for 2018-19 & 2019-20 and incorporated accordingly. The Brief financial involvement of Allotment & Expenditure 2018-19 & 2019-20 (upto Dec,19) are:

Sl No	Heads	Allotment in Rs.2018-19	Expenditure in Rs.2018-19	Allotment in Rs Rs.2019-20 Upto(Q3)	Expenditure in Rs.2019-20 Upto(Q3)
1	Procurement of Goods	17,270,000/-	73,87,351/-	8,11,29,000/-	5,30,59,007/-
2	Academic Processes	1,48,06,000/-	32,54,077/-	7,62,85,000/-	400,60,364/-
3	Operating Cost	30,82,000/-	11,80,447/-	43,10,000/-	25,69,514/-
Total		3,51,58,000/-	1,18,21,875/-	16,17,24,000/-	9,56,88,885/-

- b) Through the procurement of goods, the University has generated the following list of assets which has not included in the University main accounts. The main accounts have not included the value of the assets because the assets are procured through the central Govt. schemes and the fund is allotted on the real time basis only PFMS (Public Financial Management System). The statutory and internal audit of the project accounts is prepared and audited by the guideline of NPIU (National Project Implementation Unit).

Assets created out of TEQIP-III fund

SI No	Asset particulars	Asset No.	Qty	Amount	Asset Location place	Period
Central Research Hub						
1	Almirah	ASTU/TEQIP-III/AL/25, 26	2	314317.00	Central Research Hub	Q3 2017-18
2	Bookshelves	ASTU/TEQIP-III/BOOKSHELVES/27, 28, 29, 30	4			
3	Chairs	ASTU/TEQIP-III/CHAIRS/31 TO 66	36			
4	Table	ASTU/TEQIP-III/TABLE/67 TO 71	5			
5	Photocopier	ASTU/TEQIP-III/PHOTOCOPIER/22	1	46000.00	Central Research Hub	Q3 2017-18
6	Printer	ASTU/TEQIP-III/PHOTOCOPIER/23 & 24	2	50600.00	Central Research Hub	Q3 2017-18
7	Pre-fabricated lab	Extension of existing building	1	2990700.00	Central Research Hub	Q1 2018-19
8	Air Conditioner with stabilizer	ASTU/TEQIP-III/AC/626 TO 636	11	575997.00	Central Research Hub	Q2 2018-19
9	Almirah	ASTU/TEQIP-III/AL/640 to 643/18-19	4	71366.00	Central Research Hub	Q4 2018-19
10	Chair revolving	ASTU/TEQIP-III/CHAIRS/644 to 658/18-19	15	103850.00	Central Research Hub	Q4 2018-19
11	Table	ASTU/TEQIP-III/TABLE/659 TO 667/18-19	9	100784.00	Central Research Hub	Q4 2018-19
12	Laboratory work Bench	ASTU/TEQIP-III/TABLE/659 TO 667/18-19	2	255203.00	Central Research Hub	Q1 2019-20
13	Educational Display (Television)	ASTU/TEQIP-III/TV-670/19-20	1	44800.00	Central Research Hub	Q1 2019-20
Conference Hall						
14	Video Conferencing System	ASTU/TEQIP-III/VC/21	1	767124.00	Conference Hall	Q3 2017-18
15	WACOM DTK	ASTU/TEQIP-III/VC/21	1	106200.00	Conference Hall	Q3 2017-18

16	Online UPS 5KVA	ASTU/TEQIP-III/VC/21	1	77196.00	Conference Hall	Q3 2017-18
17	UPS 5KVA Battery	ASTU/TEQIP-III/VC/21	1set (30nos)	46704.00	Conference Hall	Q3 2017-18
Computational Laboratory						
18	Simulation Lab	Software	1	2330500.00	Computational Laboratory	Q4 2017-18
19	Desktop Computer	ASTU/TEQIP-III/COMPUTER/614 TO 622	9	448695.00	Computational Laboratory	Q1 2018-19
20	UPS 600 VA	ASTU/TEQIP-III/UPS/614 TO 622	9			
21	Desktop Computer	ASTU/TEQIP-III/COMPUTER/572 TO 583	12	507225.00	Computational Laboratory	Q1 2018-19
22	Headphone	ASTU/TEQIP-III/HEADPHONE/684 TO 608	25	7375.00	Computational Laboratory	Q1 2018-19
23	Laptop (with external drive & bag)	ASTU/TEQIP-III/LAPTOP/609 TO 613	5	305030.00	Computational Laboratory	Q1 2018-19
24	30 KVA Online UPS with Battery	ASTU/TEQIP-III/UPS/639	1	559820.00	Computational Laboratory	Q3 2018-19
25	UPS	ASTU/TEQIP-III/UPS/694/19-20	1	588820.00	Computational Laboratory	Q2 2019-20
26	ERP Server	ASTU/TEQIP-III/ERP/695/19-20	1	5580220.00	Computational Laboratory	Q2 2019-20
Energy Laboratory						
27	Rheometer-Refractometer	ASTU/TEQIP-III/RHE-671/18-19, ASTU/TEQIP-III/REF-672/18-19	1	3806796.00	Energy Laboratory	Q4 2018-19
28	TGA	ASTU/TEQIP-III/TGA-683/19-20	1	4130000.00	Energy Laboratory	Q1 2019-20
29	Viscometer	ASTU/TEQIP-III/DV-682/19-20	1	530147.00	Energy Laboratory	Q1 2019-20
30	FCUH	ASTU/TEQIP-III/CPT-673/19-20, ASTU/TEQIP-III/FPPT-674/19-20, ASTU/TEQIP-III/HAO-675/19-20, ASTU/TEQIP-III/US-676/19-20	1	387158.00	Energy Laboratory	Q1 2019-20
31	VMF	ASTU/TEQIP-III/VMF-680/18-19	1	605482.00	Energy Laboratory	Q1 2019-20
32	DSC	ASTU/TEQIP-III/DSC-688/19-20	1	3599000.00	Energy Laboratory	Q2 2019-20
33	IC Engine	ASTU/TEQIP-III/IC-685/19-20	1	2454400.00	Energy Laboratory	Q2 2019-20
Material Science Laboratory						

34	Furnace	ASTU/TEQIP-III/MF-678/18-19	1	1096883.00	Material Science Laboratory	Q1 2019-20
35	Melting Casting Furnace	ASTU/TEQIP-III/SFV-681/19-20	1	1038400.00	Material Science Laboratory	Q1 2019-20
36	Diamond Sectioning Machine	ASTU/TEQIP-III/DS-684/19-20	1	1274990.00	Material Science Laboratory	Q1 2019-20
37	Optical Emission Spectrometer	ASTU/TEQIP-III/OES-687/19-20	1	3717000.00	Material Science Laboratory	Q2 2019-20
38	Material Science Lab Equipments	ASTU/TEQIP-III/HDT/690/19-20, ASTU/TEQIP-III/OMM/690/19-20, ASTU/TEQIP-III/AGP/690/19-20, ASTU/TEQIP-III/HMP/690/19-20	1	4456860.00	Material Science Laboratory	Q2 2019-20
Metal Laboratory						
39	Vacuum Component	NA	1	326683.00	Metal Laboratory	Q1 2019-20
40	OES	ASTU/TEQIP-III/HRS-677/18-19	1	1919520.00	Metal Laboratory	Q1 2019-20
41	IPVD	ASTU/TEQIP-III/IPVD-689/19-20	1	4865140.00	Metal Laboratory	Q2 2019-20
42	RF Power Supply	ASTU/TEQIP-III/RFP/691/19-20	1	1296702.00	Metal Laboratory	Q2 2019-20
Tribology Laboratory						
43	Four Ball Tester	ASTU/TEQIP-III/FBT-686/19-20	1	2950000.00	Tribology Laboratory	Q2 2019-20
44	Pin Ball Disk	ASTU/TEQIP-PBDT/693/19-20	1	4130000.00	Tribology Laboratory	Q2 2019-20
45	Journal Bearing	ASTU/TEQIP-III/JBA/692/19-20	1	4366000.00	Tribology Laboratory	Q2 2019-20

c) **Introduction of ERP at ASTU:**

The University has decided to introduce digitization of its activities through using Enterprise Resource Planning (ERP). It has been decided to procure from the **Procurement head** of TEQIP. Expression of interest for the work has been called through public notice and **Assam Electronics Development Corporation Limited (AMTRON)** has been found as the lowest bidder amounting to Rs.1,72,28,000.00 including all other taxes as applicable. The work is in progress and likely to be completed by 30th Sept, 2020.

d) **Award of Research Project under TEQIP-III to different Affiliated colleges:**

SI No	Affiliated College/Institution	No of Project	Amount
1	Assam Engineering College	40	1,16,34,693/-
2	Assam Science and Technology University	8	24,00,000/-
3	Bineswar Brahma Engineering college	6	17,62,000/-

4	GIMT-Guwahati	21	60,77,000/-
5	GIMT-Tezpur	7	20,23,000/-
6	Jorhat Engineering College	15	41,22,500/-
7	Jorhat Institute of Science & Technology	6	16,88,000/-
Total			2,97,07,193/-

V. REPORTING OF FINANCIAL STATEMENT AND AUDIT OF ACCOUNTS

2011-2012	Prepared and Audited by Accountant General (Audit) Assam
2012-2013	Prepared and Audited by Accountant General (Audit) Assam
2013-2014	Prepared and Audited by Accountant General (Audit) Assam
2014-2015	Prepared and Audited by Accountant General (Audit) Assam
2015-2016	Prepared and Audited by Accountant General (Audit) Assam
2016-2017	Prepared and Audited by Accountant General (Audit) Assam
2017-2018	Prepared and Audited by Statutory Auditor (Already presented in the 4 th University Court Meeting)
2018-2019	Prepared and Audited by Statutory Auditor (Already presented in the Finance Committee & Executive Council Meeting)

VI. OTHER FINANCIAL INFORMATION

- a) **Retirement Benefits Scheme:** The University has introduced New Pension Scheme (NPS) for the employees of the University by opening the respective PRAN Account. The University has also decided to implement old pension scheme to the employees those who have joined this university through proper channel with the continuous service in the previous employment with the pension scheme they were availing.

b) **Statutory meetings including other committee of ASTU**

Sl No	Meetings	Nos
1	Court Meeting	4
2	Purchase Committee Meeting	25
3	Finance Committee	12
4	Executive Council	22
5	Academic Council	21
6	University Examination Committee	14
7	University Research Committee	10
8	Under Graduate Board Meeting	12
9	Post Graduate Board Meeting	9
10	Tender Opening Committee Meeting	127

11	Need Aspect Committee	13
12	BOS (UG & PG)	48
13	PMRC	12

c) **Submission GST concession application** :- GST The University has applied vide this office letter No.ASTU/GST/2017/269/1245 dated 18/07/2018 to the Department of Scientific & Industrial Research to avail concession under GST rates as per Gazette Notification No. 45/2017 & 47/2017 integrated tax (Rate) dated 14/11/2017.

d) **University Annual return** - Income Tax Return of the University is made mandatory from the Financial year 2015-16 onwards. The University has already filed Income Tax Return of the University for the Financial Year 2015-16, 2016-17, 2017-18 & 2018-19. The University has been exempted from Income Tax as below:



Sl No	Assessment Year	Financial Year	Exempted income (Rs.)
1	2016-17	2015-16	6,73,95,282/-
2	2017-18	2016-17	4,96,77,006/-




e) **Apply for 12(B) registration under UGC**: University at presently registered under 2(f) of the UGC Act. In order to avail funding from UGC schemes University has recently applied for 12(B) registration. This is the first communication initiated by the advice of Hon'ble Vice Chancellor ASTU

VII. STATUS OF INFRASTRUCTURE DEVELOPMENT OF INFRASTRUCTURE

CAMPUS-I **10 BIGHAS PLOT**

Prior to the Financial Year 2018-19

Sl No	Financial Year	Particulars of the infrastructure	Amount	A view of infrastructure
1	2015-16	Administrative Block - I	347.00 Lakhs	
2	2016-17	ASTU Canteen	3.00 Lakhs	

2	2017-18	Assam type building for classrooms of in-campus courses	20.97 Lakhs	
3	2017-18	Central Research Hub (Under TEQIP)	29.91 Lakhs	
				

Started from the Financial Year 2018-19

1. Academic Building & VC's Residence:

Construction of "Academic Building & VC's Residence" has been progressed. The construction of the building is done by Sri Kamal Singh Dugar. The status of the Utilization of fund and work in progress of the construction as on 31st Jan, 2020 fund released receives and payments and working progress is: A bill was raised by the contractor Sri Kamal Singh Dugar. The status of the availability of fund and the payment with work-in-progress are as below: -

Sl. No	Total Administrative approval and Financial Sanction with ref. no. (Rs.)	Total Fund Receives (Rs.)	Amount of the Bill submitted and ref. no. (Rs.)	Fund Available (Rs.)	Status of the Bill	Progressive Work in progress (%) against the bill	Projected Work in progress (%)
a)	7,68,95,250.00 (PMA(H)74/2017/29 dated 14/06/2017)	1,00,00,000.00	84,42,484.00 (bill No - 512/RA/I/GB-IV/2018-19 dated 27/3/2019)	1,00,00,000.00	Full bill released	11% As on 27/03/2019	As on 31/03/2020
b)			34,53,249.00 (bill No- 1099/RA/11/GB-IU/2019-20 dated 27/09/2019)	15,57,516.00	Payment released up to the available amount	17% As on 27/09/2019	



A VIEW OF UNDER CONSTRUCTION OF ACADEMIC BUILDING

2. Construction of Building under TNEIF:

“The Construction of Building for Infrastructure Augmentation Support of Infrastructure Development of Assam Science and Technology University (ASTU)” under TNEIF has been started by Competent Infrastructure and Consulting Pvt. Ltd., Guwahati. The construction has been reviewed from time to time by Project Management Review Committee (PMRC). The status of the availability of fund and the payment with work-in-progress are as below: -

Sl. No	Total Administrative approval with ref. no. (Rs.)	Total Financial Sanction with ref. no. (Rs.)	Total Fund Receives (Rs.)	Amount of the Bill submitted and ref. no. (Rs.)	Fund Available (Rs.)	Status of the Bill	Progressive Work in progress (%) against the bill	Projected Work in progress (%)
1	7,00,00,000.00 (ATE.11/2018/117 dated 19/12/2018)	2,00,00,000.00 (ATE.11/2018/159 dated 14/02/2019)	2,00,00,000.00	1 st RA Bill submitted by the Contractor: 1,43,61,929.00 and Bill paid : 1,20,56,266.00	79,43,734.00	Full bill released	27.5%	65% As on 31/03/20
2				2 nd RA Bill submitted by the Contractor: 87,78,930.00	Under process		48%	

- Additional Performance Security has been submitted by the Competent Infrastructure and Consulting Pvt. Ltd., Guwahati. The appraisal and approval of the revised cost has already been minuted vide Minutes of 11th Finance Committee Meeting and office Memo No. ASTU/FC/36/2014/Voll-III/1902 dated 29/06/2019.



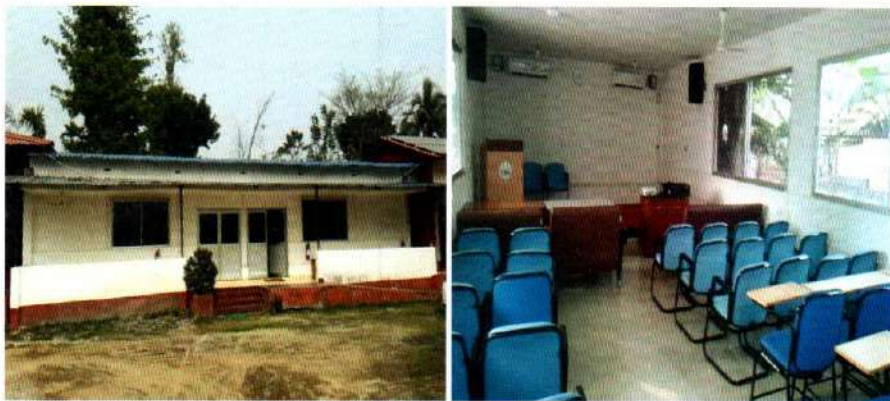
A VIEW OF UNDER CONSTRUCTION SEMINAR HALL (W.I.P. 25%)



A VIEW OF UNDER CONSTRUCTION
EVALUATION HALL (W.I.P. 50%) EMERGENCY BLOCK (W.I.P. 85%)

3. Renovation work from existing car parking shed to conference hall and Library:

Sl No	Original contract cost (Rs)	Total final payment (Rs.)	Revised contract cost	Reason for revised final estimate
1	14,55,000.00	15,79,783.00	15,79,783.00	Additional amount of Rs. 1,24,783.00 as submitted by University Engineering Department.





PRE-FABRICATED CONFERENCE HALL

Infrastructure of Library system: - Organized Library system is introduced in the Pre-Fabricated Conference Hall temporarily. The following books and journal is available in the university library at present. The proposal for procuring books & e-journals are in the pipeline for strengthen the ASTU library.

1. Books: 294 Nos
2. Journal: 23 Nos
3. Government Publications 83 Nos.
4. Dissertations 34 Nos.
5. Thesis 1 No.
6. Library Software (Koha).
7. DDC 23rd Edition.

Started from the Financial Year 2019-20

1. **Storage Facility:** The university is facing shortage of space for storage. Therefore, Hon'ble Vice Chancellor advised to procure a shipping container through open tendering process. The shipping container has been purchased considering the durability, mobility, cost effective and safer to store confidential material. The installation was made with a total expenditure of only Rs.3,80,760/-.



2. **Installation of 25 kWh Grid connected rooftop solar power plant at ASTU premises:**
The University in association with "Assam Energy Development Agency (AEDA)" installed 25kWh Grid connected rooftop solar power plant at ASTU premises with an expenditure of Rs.14,94,250.00. The Solar Grid will be able to generate 31937 kWh annually with average financial benefit of Rs.2.44 Lakhs per year.



MAIN COMPONENTS OF CAMPUS-II

ZONE - I	ZONE-II
Approach Road	Playground
i) Entry	
ii) Exit	
iii) Corridor	
iv) Peripheral	
Boundary wall/ Boundary Fencing	Solar park
Gates	Environmental study centre
Site office	Artificial lake/ Rainwater harvesting
Water supply	Periphery plantation
Power station	Internal roads
Sewage Disposal system	Staff quarter
Normal levelling	
Masonry retaining	
Artificial lake	
Drainage system	
Culverts	
R & D blocks	
Administrative Block/ Placement Block	
Security Zone	
Students hostel blocks	
Faculty quarter	
Land scape	
External lighting	
Staff quarter	


VIII. MANPOWER STRENGTH OF THE UNIVERSITY

- a) Govt. has created and sanctioned 30 posts against a total of 74 Nos of posts proposed for this University in various cadres. The posts have been filled up in phased manner. The strength of manpower involvement in the University is shown in schedule "C" of pay scales of the staff.
- b) In addition to these posts, a few persons have been engaged for examination work and other day to day work on contractual basis. Security service has been outsourced.
- c) **Recruitment under TEQIP III Programme:** 1 (one) no. of Project Officer and 4 (four) nos. of Project Assistant have been appointed under TEQIP III Programme. The amount required has been received under TEQIP-III Scheme of MHRD, Govt. of India.

- d) **Proposal for Technical Posts and Academic Posts:** Proposal has been submitted for 5 (five) nos. of academic posts comprising of Professor 1 (one) no., Associate Professor 1 (one) no. and Assistant Professor 3 (three) nos., to the Govt. of Assam for Government Concurrence and Sanction vide letter no. ASTU/ESTT/HRM/68/2014/Vol-III/7831 dated 02/11/2018. It requires an additional amount of Rs.80.00 Lakhs (Rupees Eighty Lakhs only) as Grants-In-Aid under Revenue Expenditure from the financial year 2020-21.


(Debajyoti Goswami)
Finance & Accounts Officer


(Nripen Das)
Registrar


(Dhiraj Bora)
Vice Chancellor