

Special Issue
September, 2019



Assam Science and Technology University

NEWSLETTER

A Quarterly Publication of Activities of the University

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Message from the Vice Chancellor



I am happy to know that Assam Science and Technology University (ASTU) is bringing its "Newsletter – A Quarterly Publication of Activities of the University, Special Issue, September, 2019" that will showcase the events, activities that happened at ASTU during the period under consideration. I am sure that the newsletter will become a must-read chronicle on happenings around us. I congratulate editorial team for their initiative and wish them success.

Best Wishes to the team.

A handwritten signature in black ink, reading "Dhiraj Bora".

Prof. (Dr.) Dhiraj Bora, Vice Chancellor

List of Courses in Affiliated colleges under Assam Science and Technology University

1. Assam Engineering College, Guwahati
B.E./B.Tech (Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Electronics and Telecommunication Engineering, Computer Science & Engineering, Instrumentation Engineering, Industrial & Production Engineering), MCA, M.Tech (Civil Engineering, Electrical Engineering, Mechanical Engineering)
2. Barak Valley Engineering College, Karimganj
B.E./B.Tech (Computer Science & Engineering, Electronics and Telecommunication Engineering)
3. Bineswar Brahma Engineering College (BBEC), Kokrajhar
B.Tech(Chemical Engineering, Electrical Engineering)
4. Girijananda Chowdhury Institute of Management and Technology, Guwahati
B. Tech(Civil Engineering, Mechanical Engineering, Electrical Engineering, Electronics and Communication Engineering, Computer Science & Engineering, Applied Electronics and Instrumentation) Bachelor of Computer Application, BBA, M.Tech (Computer Science and Engineering, Electronics and Communication Engineering, Thermal and Fluid Engineering)
MBA, MCA, PG Diploma in Journalism, Ph.D (CSE, ME, ECE, Business Administration).
5. Girijananda Chowdhury Institute of Management and Technology, Tezpur
B. Tech(Civil Engineering, Mechanical Engineering, Electrical Engineering)
6. Golaghat Engineering College, Golaghat
B.Tech(Civil Engineering, Mechanical Engineering, Chemical Engineering)
7. Jorhat Engineering College, Jorhat
B.E./B.Tech (Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Science & Engineering, Instrumentation Engineering), MCA, M.Tech (Civil, Instrumentation Engineering, Production and Industrial Engineering), PhD (CSE, ME, IE, Civil Engg, EE)
8. Jorhat Institute of Science and Technology, Jorhat
BSc in Physics, BSc in Chemistry, BSc in Information Technology, BSc in Mathematics, MSc in Chemistry, MSc in Physics, MSc in Mathematics, B.E./B.Tech (Civil Engineering, Mechanical Engineering, Electronics and Telecommunication, Power Electronics and Instrumentation)
PhD (Mathematics and chemistry)
9. NETES Institute of Technology and Science, Mirza
B.Tech(Mechanical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Electrical and Electronics Engineering)

10. Scholars Institute of Management and Technology, Garchuk, Guwahati
B.E./B.Tech.(C.E, M.E, CSE, EEE, ECE)
11. Girijananda Chowdhury Institute of Pharmaceutical Science, Azara, Guwahati
B.Pharm, M.Pharm, D.Pharm, B.Pharm (Practice)
12. Netes Institute of Pharmaceutical Science (NIPS), Shantipur, Mirza
Bachelor in Pharmacy (B.Pharm)
13. Pratiksha Institute of Pharmaceutical Science, Panikhaiti
Bachelor in Pharmacy (B.Pharm)
14. Rahman Institute of Pharmaceutical Sciences and Research (RIPSR), Sonapur, Kamrup (M)
B.Pharm
15. Guwahati College of Architecture and Planning, Jogipara - Jabey Rd, Azara
Bachelor of Architecture (B.Arch), Master of Architecture (M. Arch), Master of Planning (M.Plan).
16. NERIWALM, Tezpur
M.Tech in Water Resources Management
17. Assam Institute of Management, Guwahati
Master of Business Administration
18. Brahmaputra College, Guwhati
B.Sc. Applied Physics, B.Sc. Computer Science, B.Sc. Electronic Science, B.Sc Zoology, B.Sc. Chemistry, M.Sc. Zoology, M.Sc. Applied Physics
19. Darrang College, Tezpur
Master of Business Administration
20. NERIM Guwahati
MSc in Computer Science
21. NERIM, Mangaldai
B.Sc. in Zoology, B.Sc. in Physics, B.Sc. in Chemistry
22. Pub Kamrup College, BaihataChariali
M.Sc in Physics, M.Sc Computer Science

FIRST INDUSTRY ACADEMIA CONCLAVE (ASTU-IAC 2019)

The Assam Science and Technology University has organized its First Industry Academia Conclave (ASTU-IAC 2019) on the theme “Realigning Science & Technology Education and Research as per Industry Needs” on Wednesday, May 22, 2019 at NEDFi Convention Centre, Guwahati in association with Confederation of Indian Industry (CII) for cultivation of resilient links with industry and promotion of various industrial activities by the faculty members and students of the University and its affiliated

institutions. The basic objective of ASTU-IAC 2019 was to bring Industry and Academia together on the same platform and aimed at allowing students and faculties to sense the current industry requirements and thus, ASTU and its affiliated institutions could become centres of employee scouting by the various companies while on the other hand, the industries could also reap the benefits of cutting-edge R&D by investing in the minds of these institutions.



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. More than 100 researchers, faculty members, academicians, young scientists and students from technical institutions of the country and abroad participated and 96 different research articles on

the relevant fields of energy were also presented in the conference.

Dr. Ajay Mathur, Director General of The Energy and Resources Institute (TERI), New Delhi was present as chief guest of the inaugural ceremony. Mr. B.J. Phukan, Director (Technical) of Numaligarh Refinery Limited (NRL) also attended the ceremony as the Guest of Honor of the session. A Renowned artist and personality of the state Mrs. Sudakshina Sarma inaugurated the cultural evening organized on 5th December, 2018 in connection with the conference. A conference proceeding, comprising of selected articles was published as book (special issue) by American Institute of Physics (AIP) Publishing, New York, USA.



NCRAST 2019

The Assam Science and Technology University (ASTU) successfully organized 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 NCRAST-2019 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 was 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) plenary talk and eleven (11) invited talk was conducted during the 2nd NCRAST 2019. Prof. V K Jain, Vice-Chancellor of Tezpur University was present as chief guest of the inaugural ceremony



NATIONAL SCIENCE DAY-2019

The Assam Science and Technology University, Guwahati, organized a day long programme on 28th February, 2019 to celebrate National Science day-2019 at Tetelia High School, Tetelia, Guwahati. The programme was especially meant for school

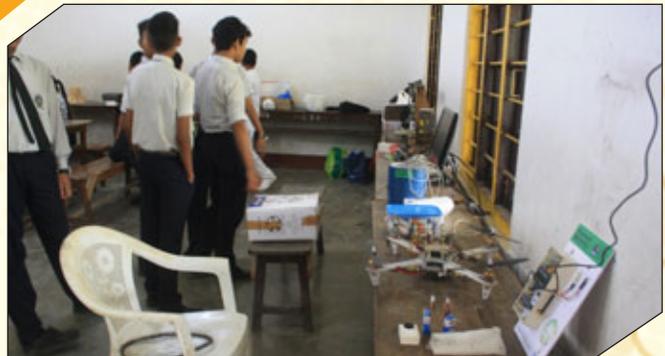
children to inculcate scientific temperament among them. Over 500 children from the nearby schools participated in the programme themed as "Science for the People and People for Science".



NATIONAL TECHNOLOGY DAY - 2019

The Assam Science and Technology University (ASTU), a State University of Government of Assam, has organized a day-long programme for school children to celebrate this year's National Technology Day on Saturday, May 11, 2019 at GU Model High School English Section, Jalukbari, Guwahati in association with Sparkbee (a group of young engineers), Kendriya Vidyalaya Khanapara Alumni

Association and GU Model High School English Section. Students and teachers of 21 schools in and around Guwahati and its suburbs were invited to participate in the programme through invitation letters, a programme announcement poster and an event details poster with rules of participation in various competitions.



TEQIP-III PROJECT

The Project, Third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States (SCS) and support to strengthen few affiliated technical universities to improve their policy, academic and management practices. Assam Science and Technology University (ASTU) is also a part of TEQIP-III Programme. As an ATU, ASTU is

organising many academic activities for its affiliated institutes to improve the quality of students and teachers. More than 30 academic activities performed Under TEQIP-III for the period of March, 2018-June, 2019. ASTU is also establishing Central Research Hub with financial support received from TEQIP-III to provide an international standard research platform to the young generation of the region to carry out different research activities in some thrust areas for socio-economic development of Assam and NE region. ASTU has already procured the various equipments for CRH under TEQIP-III.



Image of the laboratory building for CRH

FIRST CONVOCATION

The 1st Convocation of Assam Science and Technology University was held on 23rd Feb, 2019, in the Gauhati Medical College Auditorium, Guwahati. Degrees were conferred to all the successful candidates of all degree examination results declared up to 30th Nov, 2018. Three prominent awards (Gold medal, Special Merit Certificate and Programme Topper Certificate) were given to the students along with the pass certificates. Special

attendees of convocation were Prof. Jagdish Mukhi, Hon'ble Chancellor and His Excellency Governor of Assam, Dr. Dinesh Kumar Srivastava, Raja Ramanna Fellow, Former director & distinguished scientist, variable energy cyclotron centre, Kolkata, Shri Siddhartha Bhattacharya, Hon'ble Minister for Education, Guwahati Development Department, Law & Justice, Government of Assam.



GOLD MEDALS AWARDED TO THE CANDIDATES IN 1ST CONVOCATION OF THE UNIVERSITY:

SL	Student_Name	College	Course
1	RIPUNJOY BORDOLOI	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	M.PHARM (Pharmaceutics)
2	NEELAM AGARWALLA	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Computer Science and Engineering)
3	LAXMI KHEMKA	Royal School of Business , Guwahati	MBA
4	PRIYANKA CHOUDHURY	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	M.PHARM (Pharmaceutics)
5	JAYASHREE DAS	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Computer Science and Engineering)
6	TANIMA PAUL	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Electronics and Communication Engineering)
7	SARMISTHA DAS	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Instrumentation and Control Engineering)
8	RUHI PANSARI	Royal School of Business , Guwahati	MBA
9	SHATABDI CHETIA	Girijananda Chowdhury Institute of Management and Technology, Azara	MCA
10	TASRINA RAHMAN	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	B.PHARM
11	RUPSIKHA BORAH	Girijananda Chowdhury Institute of Management and Technology, Azara	B.TECH (Applied Electronics & Instrumentation Engineering)
12	NIRMALY ROY MEDHI	Royal School of Engineering and Technology , Guwahati	B.TECH (Civil Engineering)
13	UDDIPAAN HAZARIKA	Royal School of Engineering and Technology , Guwahati	B.TECH (Computer Science and Engineering)
14	AJAY CHOUDHURY	Girijananda Chowdhury Institute of Management and Technology, Azara	B.TECH (Electronics & Communication Engineering)
15	BANDANA SHARMA	Girijananda Chowdhury Institute of Management and Technology, Tezpur	B.TECH (Electrical Engineering)

16	DIKHSITA BHATTACHARYYA	Netes Institute of Technology and Science , Mirza	B.TECH (Electrical and Electronics Engineering)
17	RAJASHREE BORAH	Royal School of Engineering and Technology , Guwahati	B.TECH (Mechanical Engineering)
18	SILCHI R MARAK	Guwahati College of Architecture and Planning, Azara	MASTER OF ARCHITECTURE (Urban Design)
19	MOBARAK HUSSAIN	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	M.PHARM (Pharmaceutics)
20	MALA AHMED	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Computer Science and Engineering)
21	BHASWATI KALITA	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Electronics and Communication Engineering)
22	MAYURI SARMAH MAZINDER	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Instrumentation and Control Engineering)
23	CHHAYA KUMARI	Girijananda Chowdhury Institute of Management and Technology, Azara	MASTER OF BUSINESS ADMINISTRATION
24	MONIKA BARMAN	Girijananda Chowdhury Institute of Management and Technology, Azara	MCA
25	SUJATA PAUL	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	B.PHARM
26	RASHMI HAZARIKA	Girijananda Chowdhury Institute of Management and Technology, Azara	B.TECH (Applied Electronics & Instrumentation Engineering)
27	BABLI BURAGOHAIN	Girijananda Chowdhury Institute of Management and Technology, Azara	B.TECH (Civil Engineering)
28	ANANNYA CHAKRABORTY	Royal School of Engineering and Technology , Guwahati	B.TECH (Computer Science and Engineering)
29	MANAMI BORAH	Netes Institute of Technology and Science , Mirza	B.TECH (Electronics & Communication Engineering)
30	RABINA AHMED	Girijananda Chowdhury Institute of Management and Technology, Tezpur	B.TECH (Electrical Engineering)
31	PARTHA PROTIM BORUAH	Netes Institute of Technology and Science , Mirza	B.TECH (Electrical and Electronics Engineering)
32	ANKIT BHARECH	Royal School of Engineering and Technology , Guwahati	B.TECH (Mechanical Engineering)
33	SABRINA ROHMAN	Guwahati College of Architecture and Planning, Azara	MASTER OF ARCHITECTURE (Urban Design)

34	CHINMOY BHUYAN	Girijananda Chowdhury Institute of Pharmaceutical Science, Azara	M.PHARM (Pharmaceutics)
35	ANUBHAV ANAND DAS	Guwahati College of Architecture and Planning, Azara	MASTER OF PLANNING (Urban and Regional planning)
36	MANASH PRATIM KALITA	Brahmaputra College , Guwahati	MASTER OF SCIENCE (Applied Physics)
37	PINKI NARAH	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Electronics and Communication Engineering)
38	SURMITA ACHARJEE	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Instrumentation and Control Engineering)
39	SUDARSAN SARMA	Girijananda Chowdhury Institute of Management and Technology, Azara	M.TECH (Computer Science and Engineering)
40	PINKU KUMAR GOSWAMI	Assam Science and Technology University	M.TECH (Energy Engineering)
41	MOHAMMAD KALIM	Girijananda Chowdhury Institute of Management and Technology, Azara	MBA
42	NAYAN MONI GOGOI	Girijananda Chowdhury Institute of Management and Technology, Azara	MCA
43	NILAKSHI SARMA	Guwahati College of Architecture and Planning, Azara	MASTER OF ARCHITECTURE (Urban Design)

SECOND ANNUAL SPORTS AND CULTURAL MEET, 2019

Assam Science and Technology University organised the second Annual Sports and Cultural Meet, 2019 at NEMCARE Group of Institutes, Mirza playground. It saw a major participation of affiliated colleges under ASTU and it was also seen that number of participating colleges has increased in comparison to last year. A number of events were held for both boys and girls separately. The event list was –

Group Events -

Boys

1. Football
2. Volley Ball
3. Tug of War
4. Kabaddi

Girls

1. Volley Ball
2. Kabaddi
3. Tug of War

Individual Events –

Boys

1. 100 mt. race
2. Shot Put

Girls

1. 100 mt. race
2. Shot Put

Cultural Event -

1. Traditional Folk Dance

Assam Science and Technology University and the following affiliated colleges have participated in the meet:

1. Assam Engineering College
2. Jorhat Engineering College
3. Golaghat Engineering College
4. Guwahati College of Architecture
5. NIPS, Guwahati
6. GIPS, Guwahati
7. GIMT, Azara
8. PIPS, Guwahati

The results of the event are as follows:

Sl. No	Game	Winner	Runner - Up	Best player
1	Football(Boys)	Assam Engineering College	Jorhat Engineering College	Monjit Gogoi
2	Volleyball (Girls)	Guwahati College of Architecture	Girijananda Institute of Management and Technology, Azara	Lalduhpui
3	Volleyball (Boys)	Assam Engineering College	Girijananda Institute of Pharmaceutical Sciences, Azara	Debashish Saikia
4	Kabbadi (Girls)	Girijananda Institute of Pharmaceutical Sciences, Azara	Golaghat Engineering College	Puja Kalita
5	Kabbadi (Boys)	Girijananda Institute of Pharmaceutical Sciences, Azara	Girijananda Institute of Management and Technology, Azara	Dhiraj Singh
6	Tug of War (Girls)	NIPS	Girijananda Institute of Pharmaceutical Sciences, Azara	
7	Tug of War (Boys)	Guwahati College of Architecture	NIPS	
8	100m (Girls)	Sumi Kakati	ElloraKalita	CandidaSungoh
9	100m (Boys)	Debashish Saikia	Siddhartha Singkai	Abhinav Gogoi
10	Shotput (Girls)	Nurain Islam	Sangita Medhi	Sumi Kakati
11	Shotput (Boys)	Lal Chauhima	AbhijitBarkakati	Jaunty Talukdar
12	Cultural (Folk Dance)	Girijananda Institute of Pharmaceutical Sciences, Azara	Pratiksha Institute of Pharmaceutical Sciences	NIPS

The event was conducted without any controversies by the referees for the various events. Separate Judges for the Cultural event was also present for fair judgement.

The best players for each game were also recognised and were awarded. The meet ended up with a vote of thanks by Dr A. K. Baruwa. The news of the event was published in the regional newspapers.





ENERGY AND TRIBOLOGY RESEARCH LABORATORY

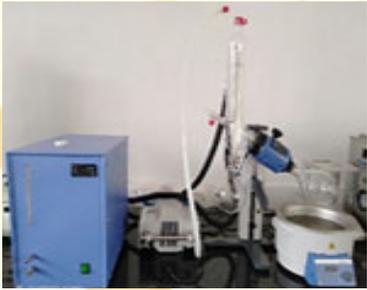
Both Energy and Tribology Research Laboratory have been developed under TEQIP III project as a part of Central Research Hub with the objective of providing the research facilities to undergraduate, postgraduate, research scholars and faculty of the University and its affiliated institutions to ensure their research remains on cutting edge. The Energy Research Laboratory(ERL) will focus on clean and sustainable technology innovation in areas such biomass, clean fuels, Different aspects of

combustion whereas Tribology Research Laboratory (TRL) will focus on lubrication technology, friction and wear related problems, new surface coatings and treatments for improved tribological performance (coating technology) and biotribology. At present the laboratory hosts Hot air oven, Ultrasonicator, Cloud & Pour Point Test Apparatus, Flash & Fire Point Test Tester, Digital Refractometer, Rheometer, Rotary Evaporator, Volatile matter furnace, Digital Viscometer.

Sl.No	Equipment	Application / Specification:
1.	<p style="text-align: center;">Hot air oven</p> 	<p>Specification: Make: Stood Steel Industries Model: SSI-101E Temperature Range: 0 to 250°C Capacity: 150L Control Accuracy: 0.5°C</p> <p>Application: To dry the sample</p>
2.	<p style="text-align: center;">Ultrasonicator</p> 	<p>Specification: Make: Oscar Ultrasonic Pvt. Ltd Model: Microclean-109-SPL Volume Capacity: preferably 5.5 Ltr. Heater : RT to 100°C Time Range : 0 - 90 min Frequency-34Hz</p> <p>It is used as homogenizers, to reduce small particles in a liquid to improve uniformity and stability. It can also be used to perform ultrasonic assisted transesterification</p>
3	<p style="text-align: center;">Cloud & Pour Point Test Apparatus</p> 	<p>Specification: Make: Hindustan Apparatus Manufacturing Co. Model: HAMCO 19C</p> <p>Conforms to the specifications of ASTM D97, D2500, D5853, D6074, D6158; IP 15, 219; ISO 3015, 3016; DIN 51597; FTM 791-201; NF T 60-105. Working temperature: -800C to 200C (Thermometer IP 1C for measuring up to -350C & Thermometer IP 2C for measuring up to -800C) Cooling agent: Isopropyl Alcohol Accuracy : +/- 20C To determine the Cloud point and pour point of fuel</p>

4	<p>Flash & Fire Point Test Tester</p> 	<p>Specification: Make: Hindustan Apparatus Manufacturing Co. Model: HAMCO 19C Temperature Range: RT to 400° C. Test Method: ISO 259 , ASTM D 92 , IP 36 , IS 1448 (P-69). To determine the Flash point and Fire point of fuel</p>
5	<p>Digital Refractometer</p> 	<p>Determination of refractive index</p> <p>Specification: Make: Anton Paar Model: ABBEMAT 3000 Range nD: 1.30 to 1.66 Accuracy: ± 0.0001</p>
6	<p>Rheometer</p> 	<p>To determine the rheological properties of samples such as biofuels, lubricant, polymer under steady shear and oscillatory mode. It is capable to measure time and frequency dependent study of sample, continuous rheological study at various shear, at constant strain.</p> <p>Specification: Make: Anton Paar Model: MCR 102 Temperature: -5 °C to 200 °C Torque range: 5 nNm to 200 mNm in Steady Shear and 7.5nNm to 200mNm in Dynamic Oscillatory Mode. Force range: 0.01 to 50N</p>
7	<p>Volatile matter furnace</p> 	<p>To determine the volatile matter of samples as per ASTM standard</p> <p>Specification: Make: Carbolite Model: VMF/ASTM Maximum temperature: RT to 1000°C Programmable temperature controller with one program storage consisting of 8 segments. Each segment consisting of one ramp & one dwell.</p>

8	<p>Digital Viscometer</p> 	<p>Determination of the viscosity of Newtonian fluid</p> <p>Specification: Make: IKA Model: ROTAVISC lo-vi Advanced Range between 1 – 6,000,000 mPas</p>
9	<p>Thermogravimetric Analyzer</p> 	<p>Specification: Make: METTLER TOLEDO Model: TGA 2 Operating temperature range: Room Temperature to 1100°C Heating rate: 0.05 - 1500C /min Atmosphere: Inert(N2,Ar), Air, Oxygen, CO2 Thermal gravimetric analyzer is used for the study of physical properties of samples as a function of temperature.</p>
10	<p>Analytical Balance</p> 	<p>Specification: Make: LABFREEZ Instruments Group Co.Ltd. Model: AB2204 Max.(Capacity) 220 g Min. (Capacity) 10 mg Readability: 0.0001 g</p>
11	<p>Magnetic Stir</p> 	<p>Specification: Make: Glassco Model: 700.AG.01 Temp Range: Ambient to 350°C Speed: 50-1500 rpm</p>

12	<p>Rotary evaporator</p> 	<p>Specification Make: IKA India pvt ltd Model: RV 10 digital V Rotation speed: 20-280 rpm Heating temperature range: RT-1800C</p>
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Tribology laboratory will have Pin/Ball on Disk, Four ball Tester, Journal Bearing Tester, surface profilometer.

New and ongoing activities

- Mr. Nabajit Dev Choudhury (ASTU) and Dr. Niharendu Saha (Assam Engineering College) are carrying out a project entitled “ Pyrolysis of locally available biomass samples and their blends: A study on effect of parameters, characterization of products and evaluation of thermal behavior”
- Mr. Mridul Deka (Jorhat Institute of Science and Technology) and Mr. Nabajit Dev Choudhury (ASTU) are carrying out a project entitled “Investigation of performance and emission of a CRDI VCR engine under different fuel injection techniques and different blends”
- Mr. Rajib Bhowmik (GIMT, Guwahati) and Mr. Nabajit Dev Choudhury (ASTU) are carrying out a project entitled “Optimization wear characteristic of seed based lubricant”.



MULTI-DISCIPLINARY EXPERIMENTAL AND TESTING ACCESSIBLE LABORATORY

Assam Science and Technology University (ASTU) has planned to undertake high quality teaching and advanced research in frontier areas of Science and Technology. The mission of the university is to provide an international standard research platform to the young generation of the region to carry out different research activities in some thrust areas for socio-economic development of Assam and N-E region. Keeping this in mind, a Multidisciplinary Experimental and Testing Accessible Laboratory is established under Central research hub of ASTU to carry out different R& D work in some interdisciplinary field.

Focus area:

1. Development of high efficient anti-corrosive coating using ionized physical vapour deposition technique in context of a) Bi-medical industry, b) Oil and gas industry etc
2. Non thermal plasma technology for agriculture to improve seed germination and crop yield.
3. Development of plasma pyrolysis reactor for safe disposal of municipal solid waste
4. Plasma medicine

Instruments/Equipment available:

1. Experimental Glow Discharge Reactor Unit
 - a) Discharge chamber



b) High vacuum pumping station



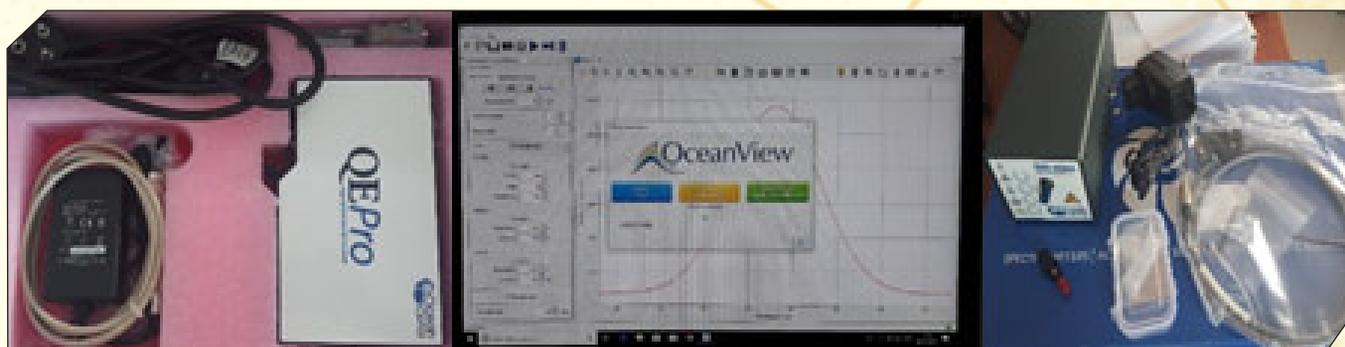
c) Electrostatic probe system



2. A Computer controlled fiber optics based High Resolution Spectrometer system

Optical spectrometers are needed for a wide variety of applications such as industrial process monitoring, plasma technology, material science, and energy and have the potential to be used in many more. The High Resolution Spectrometer system is equipped with a Detector (Hamamatsu scientific grade, back-thinned, TE Cooled, 1044 x

64 element CCD array. Detector range: 250 - 1000 nm or better), Interchangeable slit, Real-time spectral acquisition and analysis software, Fiber, Collematings Lens, Cuvette Holder for absorbance, Quartz Cuvette, Polymethyl Methacrylate (PPMA) 1 cm cuvettes and Spectro-electrochemical cell, High Power MINI Deuterium Tungsten Halogen Source and Wavelength calibration sources



3. DC power supplies



4. Heating controller and monitoring system



MATERIAL SCIENCE RESEARCH LABORATORY

Materials Science and Technology are advancing fast and are of particular relevance for industry and society as materials create added value in most products. At the same time, costs must be minimised, sustainability improved, and products rendered more attractive, portable, or usable by making them smaller and lighter. New materials can make crucial differences in many products.

OBJECTIVES

- To enhance functional efficiency of the institution for teaching, training and research and consultancy purpose.
- To facilitate the UG, PG and PhD students to do research in the area of material science and technology.
- To generate facilities for the affiliated institute of ASTU to carry out R&D and consultancy works.

LIST OF EQUIPMENTS

1. Muffle Furnace
2. Oven
3. Stir Casting Melting Furnace
4. Diamond Sectioning Machine
5. Polishing Machine
6. Optical Emission Spectrometer
7. Optical Microscope
8. Micro-Hardness Tester
9. Mounting Press
10. Universal Testing Machine
11. Rockwell Hardness tester

Work That Can be Carried by Research Scholars and Faculties

- Melting and Casting to produce different alloys of different compositions
- Heat Treatment of metals and alloys with different holding times
- Preparation of sample for metallography studies
- Study of mechanical properties like micro hardness, tensile, etc
- Study of microstructure by optical microscope and phase hardness
- Composition analysis of metals and alloys.
- Kinetic study with the help of Differential Scanning Calorimetry (DSC)



Stir Casting Furnace (9000C)



Diamond Sectioning Machine



Muffle furnace (11000C)



Hot air Oven (3000C)



Cold Mounting.

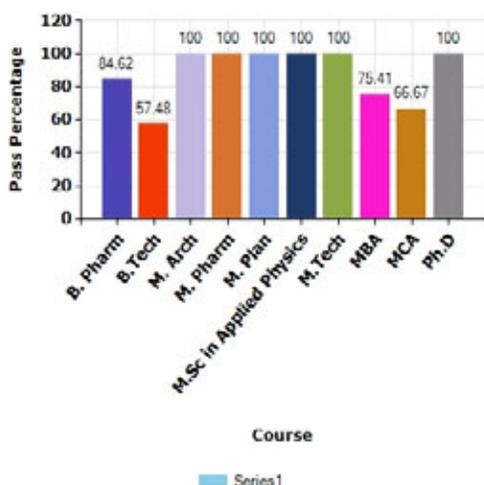


Material Science research lab

Course-Wise Graduation Statistics for Year:2018

Course-Wise Graduation Statistics for Year : 2018

Program	Appeared	Passed	Pass%
B. Pharm	65	55	84.62
B.Tech	1009	580	57.48
M. Arch	6	6	100
M. Pharm	11	11	100
M. Plan	6	6	100
M.Sc in Applied Physics	3	3	100
M.Tech	21	21	100
MBA	61	46	75.41
MCA	15	10	66.67
Ph.D	22	22	100



NATIONAL ACADEMIC DEPOSITORY (NAD)

National Academic Depository (NAD) is digital depository of academic awards. The objective of the NAD is to ensure that the academic awards are stored permanently in a secured digital depository as well as to make the same available online to all stakeholders such as students, academic institutions enrolling students for higher studies, employers, and verifying agencies, on 24x7 basis.

Assam Science and Technology University (ASTU) has started the process of digitalization

of academic records with National Academic Depository (NAD), in accordance with the direction of the Ministry of Human Resource Development (MHRD), Government of India and University Grants Commission (UGC)

In this process University has already uploaded the digitally signed original certificates of the passed out eligible candidates' in the month of March, 2019. Recently, the NAD registration process of the final year candidates is also completed.

ROOFTOP SOLAR PV SYSTEM

The Assam Science and Technology University has installed a 25 kW Grid Interactive Rooftop Solar Photovoltaic Power Generation Unit on the rooftops of its Administrative Building and Energy Engineering Building. The system will produce renewable energy by converting sunshine incident upon the solar panels on the roofs to electrical energy which will be supplied to the grid during daytime sunshine hours. The electrical energy thus supplied to the grid will be credited in the APDCL account of the University through a net metering system. This will also contribute to the amount of renewable energy generation in the State to meet the minimum requirement as per mandate of the Ministry of New & Renewable Energy, Government

of India. The system is integrated with a water sprinkling system to clean the solar panels regularly to maximise production of electricity.



OVERLAND DELEGATION VISIT TO REPUBLIC OF THE UNION OF MYANMAR

Exposure and friendship trip to Republic of the Union of Myanmar to explore the potential aspect of border trade, Education, Tourism, Investment and Co-operation was organized by the North East Federation on International Trade (NEFIT), Guwahati. NEFIT, Guwahati, is a nodal trade body for the Exporters and Importers of all the land customs for Northeast region of India. NEFIT, Guwahati, took a group of delegations comprising of 14 members from education sector, Tourism sector and business sector etc. led by Dr. Anup Kumar Gogoi, adviser, NEFIT, Guwahati, from North east region during the Invest Myanmar summit, 2019 started from 25th January, 2019 to 4th February, 2019.

Assam Science and Technology University, Guwahati, has supported the event and taken an initiative with a mission to promote the University and its academic programs in Myanmar with the vision that the University shall be known as a leading University in the North-eastern region of the Indian territory and abroad offering academic programs in technical education at various level from Undergraduate programs to Doctoral programs and also providing advanced research platforms for the young generation in the areas of Science and Technology for effective technology transfer for socio-economic development of the Assam and North – east region.

In our discussions, focus was given to start international collaboration, students exchange programs for training and academic development, to conduct seminars, academic meetings or conference for faculty and students to share knowledge, research and experiences etc. We took an initiative by requesting him to come to ASTU with some other Faculty/Professor from other University like Mandalay Technological University and Technological University, Mandalay to discuss about technical education of both the country and potential aspects of technical education in near future to create a formal linkage between

During the visit, in pursuit of the University Vision/ Mission, full commitment was given from our end to develop a good relationship between two regions so that we can encourage Educational Exchange Programs between the various Universities of Myanmar and Assam Science and Technology University. It was felt that education of both the regions are going to be more comprehensive and enriched with international collaboration. International learning and knowledge propels students towards acceptance and understanding of an array of different culture and community perspective. This visit has given ASTU a small but



two counties for collaborative activities. The agreement that comes out from the meeting was that immediately a technical team from Mandalay and Assam (from ASTU) should meet and hold a discussion on concerned matter so as to materialize our goals. We also visited two classes (MBA), there we interacted with many students from different University like University of Mandalay, Mandalay Technological University and Technological University, Mandalay and gave a briefing about Assam Science and Technology University and its academic programs etc. We received good response from students' community.

precious initiative towards international campaign for its growth in education sector and all round development as well.

1st INTERNATIONAL CONVENTION VICE CHANCELLORS NORTHEASTERN UNIVERSITIES OF BANGLADESH AND INDIA

Shahjalal University of Science & Technology, Sylhet organized the 'International Convention of Vice Chancellors' on 6th April, 2019. With the goal of improving mutual understanding between the peoples of the northeastern regions of Bangladesh and India; setting a platform for bilateral communication, cooperation and collaboration in higher education; encouraging joint research on the issues of regional significance; expediting the collaborative activities between the universities and institutes of the two regions; building a regional higher education community; helping academic communities from Bangladeshi and Indian nationals to progress towards a more open, inclusive, balanced, and mutually-rewarding, win-win situation; and contributing knowledge, skills, and strength in order to foster regional economic and social development—the core people of the participating institutions, express their commitment to maintaining collaboration through a series of activities within the framework of laws and regulations of both the countries in the spirit of consultation, collectivism, sharing, and mutually-rewarding development and progress. VC of ASTU Prof. (Dr.) Dhiraj Bora presented a paper on Teaching, Research & Innovation collaboration between Assam Science and Technology University, Guwahati and Shahjalal University of Science & Technology, Sylhet

Aim of the Convention

I. Hold forums with the heads of institutions to discuss issues and topics of mutual significance concerning innovative development of regional higher and tertiary education, enhance mutual understanding among the institutions, and share experiences of effective and efficient university/institute management;

II. Explore international training methods and modules, implement joint training and development of undergraduates and postgraduates, promote exchanges of credits as well as mutual recognition/accreditation of academic credentials;

III. Promote international cooperation and collaboration in scientific research, strengthen communication between the think-tanks, and build international joint laboratories and other research

logistics and platforms to jointly promote regional economic and social development and growth;

IV. Increase significantly students' physical and virtual mobility across the universities/institutes so that many more of our students experience realities outside their domestic contexts and deepen their understanding of challenges and opportunities in other parts of the world; and

V. Understand that all financial arrangements will have to be negotiated as the need arises, and will depend on the availability of funds.

SYMPOSIUM

1. National Symposium on "CHEMISTRY EDUCATION FOR SUSTAINABLE ENGINEERING"

Department of Chemistry, AEC & Centre of Excellence for Sustainable Polymers (Indian Institute of Technology, Guwahati) in association with Assam Science And Technology University (ASTU) were organized national symposium on "CHEMISTRY EDUCATION FOR SUSTAINABLE ENGINEERING" from August 23 to August 25, 2019.

WORKSHOP

1. One-day workshop on "Recent Trends in the Field of Electronics & Communication Engineering and Computer Science & Engineering" (Under TEQIP-III) organized by Assam Science and Technology University in collaboration with Barak Valley Engineering College, Karimganj, Assam on 28th September, 2018 at Conference Hall, BVEC Karimganj.

2. A Two Day national level workshop on "Modern Power Engineering Trends and Practices in India" (Under TEQIP-III) organized by Assam Science and Technology University in collaboration with Department of Electrical Engineering Girijananda Chowdhury Institute of Management & Technology, Guwahati on 21st -22nd September, 2018 at seminar hall, GIMT, Guwahati.

3. Orientation workshop on "MOOCs and Digital Learning" (Under TEQIP-III) organized by Assam Science and Technology University at seminar hall NITS Mirza, Guwahati.

4. Expert lesson session on "Management Capacity

Development” (Under TEQIP-III) organized by Assam Science and Technology University on 18th

September, 2018 at seminar hall , Royal School of Engineering and Technology , Guwahati.

LIST OF PUBLICATIONS

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1. Plaban Bora, Biswa Ranjan Phukan, Dhiraj Bora et al eds., Current Trends in Renewable and Alternate Energy, AIP Publishing, Melville, NY 11747, USA, 2091, (2019) (ISBN: 978-0-7354-1821-9)
2. Bharat Kakati & Dhiraj Bora eds, Advances in Science and Technology, i-manager Publications, 4-55 A2, M.V. Complex, Navalkadu Junction, Tamilnadu, (2019) (ISBN: 978-81-908910-9-7)

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2. Pinku Kumar Goswami, Nabajit Dev Choudhury, Feasibility Study in terms of Technical and Levelized Cost of Electricity for Central Tower Receiver Power Plant in Karbi Anglong District, Assam, Journal of Emerging Technologies and Innovative Research (JETIR),6, 2019, 87-93.
3. Debajyoti Goswami, Dr. Dhiraj Bora “Accessing Indian Education : Challenges in the 21st Century”, National Journal of Issues and Challenges in Management, ISBN : 978-93-81563-96-0
4. Debajyoti Goswami, Dr. N N Sarma “The Intellectual Property Rights Syndrome in State Universities” Presented at International seminar on Data analytics and Research Dimension, NEHU, 2018
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6. Plaban Bora, Recent Advances in Advanced Biofuels: With Special Emphasis to Microemulsion Based Hybrid Biofuels, in Advances in Science and Technology, B. Kakati, D. Bora eds, i-manager Publications, 4-55 A2, M.V. Complex, Navalkadu Junction, Tamilnadu, 1, pp. 135-139 (2019) (ISBN: 978-81-908910-9-7)
7. D. Kalita, Bharat Kakati, S.S. Kausik, B.K. Saikia and M. Bandyopadhyay, Tuning of Dust Charging in context of Dust Accelerator, in Advances in Science and Technology, B. Kakati, D. Bora eds, i-manager Publications, 4-55 A2, M.V. Complex, Navalkadu Junction, Tamilnadu, 1, pp. 178-181 (2019) (ISBN: 978-81-908910-9-7)
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ASTU NEWS

VCs of NE varsities discuss New Education Policy

CORRESPONDENT

GUWAHATI, June 22: A galaxy of Vice-Chancellors of North Eastern universities, state leaders, directors and representatives of educational institutions from the NE region gathered at the University of Science & Technology, Imphal (USTM) here today to participate in a brainstorming session on the National Education Policy-2019.

They discussed the massive change and restructuring of the existing education system. The programme was organised by the USTM in association with the Centre for South East Asian Studies, Gauhati University and Rajiv Gandhi University, Assam Unit, Jorhat.

Speaking over the event, Prof Mihir Kanti Choudhury, Advisor, Education, Government of Assam, said that one of the important points agreed to by all the participants was that the new National

Education Policy (NEP) needs to have a perspective of the North Eastern region of India. It was also agreed to by all that the policy needs to put more emphasis on innovation and employable education.

Subhash Dasgupta, USTM chairman, stated, "As the Union Ministry of HRD wants to introduce the new NEP that may act as a game changer for our region, we find it extremely significant for the educational leaders and academic heads of the NE, along with the whole country, to sit together and have a thorough discussion on the new NEP". The views, opinions and suggestions put forward by the speakers would be sent to Ministry of HRD, he added.

Following the keynote addresses, Dr Mihir Hazarika, Vice-Chancellor of Gauhati University, said, "The most important part of the NEP is that it is extremely comprehensive and well thought out. The national education part is well

documented and addresses the needs or aspirations for higher education. Apart from stakeholders, other distinguished participants in the session included Prof Subodh Khandowala, VC, Rajiv Gandhi University, Assam Unit, Jorhat; Prof Vijay Kumar L. Dharambham, VC, Tigrans University, Dibrugarh; Prof Vinod Kumar Baruah, VC, Assam Science and Technology University, Prof BC Dasgupta, Prof VC, Dibrugarh University; Prof G S Sengupta, Prof-VC, North Eastern India University, Jorhat; Prof Tejnaraj University; Dr NBB Singh of Dr JCR Borborah, Jorhat; Central Agricultural University, Prof Vinod Kumar Baruah, VC, Maitree Institute, Charaideo University; Dr Maribon Vijay of Dr Babasaheb Ambedkar, MLCC; Dr SC Singh, Professor of Law, National Law University and Judicial Academy, Dr B. Choudhury, Associate Prof, NITRR, Gauhati and Prof Anjan Barua, Director (Hony), International Centre for Goodwill Studies, USTM.

Workshop on role of engineers in combating biodiversity loss

STAFF REPORTER

GUWAHATI, July 24: Engineers can combat biodiversity loss and prevent extinction of biological species by developing ways to preserve diverse biological habitats. They can create both direct and indirect solutions to prevent extinction in consultation with environmental scientists to gather information that will help them design products to fight extinction.

This was the observation made by

the resource persons at a workshop organised jointly by Assam Science and Technology University (ASTU) and Assam Science Technology and Environment Council (ASTEC) on "Combating Biodiversity Loss - Role of Engineers" at the Herbarium Seminar Hall of the Assam State Zoo here today.

According to a press release, the workshop was aimed at encouraging participation of engineers, scientists and students of science and engineer-

ing in biodiversity conservation by increasing their knowledge of environmental issues and increasing awareness about the impacts of biodiversity loss.

The workshop also tried to garner growing support towards government policies and actions that conserve valuable ecosystems, thereby making the engineers educators and role models as stewards of the environment by aiding in the recovery of species at risk and preventing other species from being at risk.

3-day meet on renewable energy from today

STAFF REPORTER

GUWAHATI, Dec 3: The Assam Science and Technology University (ASTU) is organising the first International Conference on Renewable and Alternative Energy (ICRAE-2019) at the NEREP Convention Centre here from today.

The three-day conference seeks to disseminate and promote research on renewable and "green" energy research with special emphasis on the subjects with emerging research interests such as bio-fuel, bio-energy, fuel cell technologies, waste-to-energy conversion, climate change, etc.

ICRAE-2019 provides a platform for researchers and specialists across the globe to formulate a road map for renewable and alternative energy

technology-based sustainable development. The main topics to be covered at the conference include bio-fuel, bio-energy, bio-ethanol conversion, fuel cell technologies, hybrid generation, fusion energy, fuel technologies, waste-to-energy conversion, waste management, ocean, energy environment & climate change, energy for sustainable development, innovation & management, international energy cooperation, "alternative energy" research and all other renewable energy technologies. A substantial number of scientists, faculty members from various international and national institutions of the country and abroad will present over a hundred differ-

ent research articles on the relevant fields of energy at the conference.

There will be altogether four technical sessions and scientists, researchers and students are expected from IITs, IISIs, central and state universities and other reputed institutions of the country will deliver keynote speeches on renewable energy.

The Dibrugarh, Vice-Chancellor, Assam Science and Technology University, will inaugurate the conference and delegation of the managerial committee to be led by Dr Anjan Barua, Director General, The Energy Research Institute (TERI), New Delhi will be present on the chief guest, while Prof B. Dasgupta, Director, ICRAE-2019, will be the guest of honour.

23rd AIM convocation on June 7

GUWAHATI, June 3: The Assam Institute of Management (AIM) will hold its 23rd annual convocation on June 7 to felicitate the 2016-18 and 2017-2019 batch management graduates with the Post Graduate Diploma in Management (PGDM).

Vice-Chancellor of Assam Science and Technology University Dr Dhiraj Bora will attend the function as the chief guest and deliver the convocation address.

Minister of Education and Chairman, Assam Institute of Management Siddhartha Bhat-tacharjee will preside over the convocation which will start at 4.30 pm at the Pragiyoti ITA Cultural Centre, Machkhow.

UNIVERSITY CAMPUS VIEW FROM DRONE CAMERA



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