

ICAESE-2019

Activity Schedule

Date	Time	Program	Venues
2 Nov	09.30-11.30	Inaugural Function at BKB	BKB Auditorium
	11.30-12.00	High Tea	BKB Auditorium (Outside)
	12.30-02.00	Session-1	V1-V3
	02.00-03.00	Lunch Break	Food Court
	03.00-06.00	Session-2	V1-V6
	06.30-07.30	Cultural Program	BKB
3 Nov	09.30-01.00	Session-3	V1-V6
	01.00-02.00	Lunch Break	Food Court
	02.00-04.00	Session-4	V1-V6
	04.30-05.30	Valedictory Function	V1

Inaugural Function (02.11.2019) 09.30 am to 11.30 am

Time	Program	
9.30-9.33	University Anthem	On track
9.33-9.37	Felicitation	Continuous
9.37-9.45	Background of the Event	Chair-BT
9.45-9.55	Welcome Address	VC
9.55-10.02	Background of ICTP	Maria
10.02-10.07	Background of UKM	Mamun
10.07-10.25	Speech by the Chief Guest	VC, ASTU
10.25-11.25	Keynote Address	Nizar Abdullah
11.25-11.30	Vote of Thanks	US
11.30-12.00	High Tea	

Valedictory Function (03.11.2019) 04.30 pm to 5.30 pm

Time	Program	
4.30-4.34	University Anthem	On track
4.34-4.36	Felicitation	Continuous
4.36-4.45	Brief Report	US/ KKS
4.45-4.55	Feedback from participants	
4.55-5.05	Feedback from Session Chairs	
5.05-5.20	Speech by the Chief Guest	
5.20-5.27	Speech by the Chairman	
5.27-5.30	Vote of Thanks	
5.30	High Tea	

ICAESE-2019

Details of the Venues

	Session i/c	Venue i/c
V1- Conference Hall, GUIST (3 rd Floor)		Faculty: Dr. Irani Hazarika R/S: Mr. Sudipta Hazarika
V2- Gallery-1, GUIST (Ground Floor)		Faculty: Dr. Ram Kishore Roy R/S: Ms. Tushadri Baruah
V3- Gallery-2, GUIST (Ground Floor)		Faculty: Dr. Manash Protim Goswami R/S: Ms. Hiramoni Khatun
V4- Conference Hall, New Academic Building (2nd Floor)		Faculty: Dr. Hemen Kalita R/S: Biswajit Anurag Rajesh Mrinmoy
V5- Conference Hall-1, Dept. of Geology		Faculty: Dr. J J Laskar
V6- Conference Hall-2, Dept. of Geology		Faculty: Dr. J J Laskar
BKB auditorium		Faculty: Dr. J J Laskar

ICAESE-2019

Session-1

Date: 02.11.2019: 12.30 to 2.00 pm

Venue_1: GUIST Conference Hall

Invited Speaker: Dr. Atanu Kundu (9477117671)

Topic: Analog/RF Performance of Multi-Gate FinFETs/ MOS-HEMTs

Chair Person: Dr. Maria Liz Crespo, ICTP, Italy

Sl. No	Paper ID	Title	Authors
1.	98	A Low Power Dynamic Latched Comparator in 0.13- μ m CMOS Process	Hafifah Ab Hamid, Mamun Bin Ibne Reaz, Fahmida Haque and Kh Shahriya Zaman
2.	99	Low Power Phase Detectors for DLL Design in 0.13 μ m CMOS Technology	Ahmed Ibrahim Salameh Alroud, Mamun Bin Ibne Reaz, Fahmida Haque and Kh Shahriya Zaman
3.	102	Design of 4 bit, 8 bit and 14 bit SAR ADC for low power consumption.	Dhruba Jyoti Hazarika, Apurba Bikash Kalita and Kandarpa Kumar Sarma
4.	150	Microcontroller based High Voltage, High Speed, Trigger Control Circuit for SMARTEX-C	Minsha Shah, Hitesh Mandaliya, Lavkesh Lachvani, Manu Bajpai and Rachana Rajpal
5.	202	Design of a 16-bit Reconfigurable Gain and Offset Calibration Module for Nyquist Rate ADC	Nilotpal Sarma, Ashutosh Yadav, Navneet Kaur, Manash Pratim Sarma, H.S. Jatana and Kandarpa Kumar Sarma

Venue Incharge: Faculty: Dr. Irani Hazarika (8486965773)

R/S: Mr. Sudipta Hazarika (7002092068)

Session Incharge: Mr. Anjan Kumar Talukdar (9401143294)

R/S: Mr. Raktim Koch (8638125613)

ICAESE-2019

Session-1

Date: 02.11.2019: 12.30 to 2.00 pm

Venue_2: GUIST Gallery-1

Invited Speaker: Dr. Debangshu Dey 033-24146949

Topic: Advanced Condition Monitoring Techniques of Electrical Power Apparatus

Chair Person: Prof. Mamun Bin Ibne Reaz, UKM, Malaysia

Sl No.	Paper ID	Title	Authors
1	DSIR	DSIR, GoI	Representative from DSIR
2	5	Error in Measurement of Two Phase Power	S. P. Khade
3	26	Thermal Analysis of three-core HVAC power cable	Lourembam Ranjita Devi, Anu Kumar Das and Saibal Chatterjee
4	47	Particle Swarm Optimization (PSO) based Fractional Order Proportional Integral (FOPI) power system stabilizer for eliminating low frequency oscillations in power systems	Debasis Acharya, Dushmanta Kumar Das and Abhishek Srivastava
5	96	H-infinity performance based static state feedback controller design with actuator saturation for interconnected power system with time-delay using polytopic approach	Subrat Kumar Pradhan and Dushmanta Kumar Das
6	171	Oil degradation prediction and real time transformer monitoring system	K Pragathi, Karunakara B Rai, Rahul Gujuran, K S Dhanush Hebbar and Manasa K

Venue Incharge: Faculty: Dr. Ram Kishore Roy (9854549598)

R/S: Ms. Tushadri Baruah (9101920310)

Mr. Mrinmoy Medhi

ICAESE-2019

Session-1

Date: 02.11.2019: 12.30 to 2.00 pm

Venue_3: GUIST Gallery-2

Chair & Invited Speaker: Dr. Mohammad Tariqul Islam, UKM, Malaysia

Topic: Planner Antenna Miniaturisation for Electromagnetic Sensing

Sl No.	Paper ID	Title	Authors
1	57	Compact Hexagonal CPW Stair-case Ground Microstrip Patch Antenna for Wide Band Wireless Application	Stuty Khound, Dhritismita Goswami, Wasim Arif, Kandarpa Kumar Sarma, Amit Baran Dey and Sivaranjan Goswami
2	91	Designing of a 2x2 E-shaped Microstrip patch grid antenna	Juhi K Baruah, Shivranjan Goswami and Kandarpa Kr Sarma
3	97	Spike Shaped Rectangular Patch Antenna For Tuning in C-Band	Parimita Saikia and Anup Kumar Borodoloi
4	108	Design and simulation of H-shaped Microstrip Patch Antenna and Comparing with basic rectangular patch antenna at 2.4 GHz	Atlanta Choudhury and Kandarpa Kumar Sarma
5	160	A Comparative Study on Enhancement of Bandwidth on Printed Monopole Antenna	Jayananda Singh, Dr Subasit Borah and Dr.Rajesh Kumar

Venue Incharge: Faculty: Dr. Manash Protim Goswami (8253816069)

R/S: Ms. Hiramoni Khatun (6002323670)

Session Incharge: Mr. Sivaranjan Goswami (9706421272)

Mr. Sudipta Hazarika (7002092068)

ICAESE-2019

Session-2

Date: 02.11.2019: 3.00 to 6.00 pm

Venue_1: Conference Hall, GUIST

Invited Speaker: Prof. Mamun Bin Ibne Reaz, UKM Malaysia

Topic: A Capacitive Electromyography Sensor for Extramural Monitoring of Muscle Activity

Chair Person: Dr. Maria Liz Crespo, ICTP, Italy

Sl No.	Paper ID	Title	Authors
1	14	Optimization of Data Collection process in Heterogeneous WSN using Fuzzy and Multi-Attribute based Load Balancing Approach	Kumkum Dubey, Komal Verma, Shivendu Mishra, Prince Rajpoot, Ritika Yaduvanshi, Shobhit Kumar
2	155	Energy Distribution based Cluster Head Selection to Enhance the Lifetime of WSN	Rohit Kumar, Kumkum Dubey, Himanshi Chaudhary, Prince Rajpoot, Shivendu Mishra and Ritika Yaduvanshi
3	170	Study and optimization the effect of sensor position inside a gas sensing chamber for VOC detection	Chayanika Sharma, Babak Montazer and Utpal Sarma
4	175	Detection of Mealybug Infestation in Khasi Mandarin Orange Using Electronic Nose	Sudipta Hazarika, Rajdeep Choudhury and Utpal Sarma
5	43	A Simple Method for Measurement of Liquid Volume by using Electro-mechanical Sensor	Nityananda Hazarika, Ram Kishore Roy, Hidam Kumarjit Singh and Tulshi Bezboruah
6	56	IoT Enabled Efficient Detection and Classification of Hill Banana Diseases	R Deepikadevi, R Hemalatha, S Radha and Shreya Gaur
7	65	DRIVER FATIGUE MONITORING SYSTEM	Amrita Ganguly, Gyanananda Bora, Swarup Kundu and Gitartha Laskar
8	93	Development of SPR Sensor Based System for Copper Ion Detection in Water	Devabrata Sarmah, Kandarpa Kumar Sarma and Sunandan Baruah
9	100	Solar Automated Irrigation System	Deba Mahanta and Angira Handique
10	107	Design and Analysis of SCHIMOS Sensor: An NBTI Degradation Monitoring Sensing Circuit	Deepjyoti Kalita, Partha Pratim Saikia and Debaprasad Das
11	154	Relative Distance Based Fuzzy Clustering Approach for Wireless Sensor Networks	Akash Kumar Maurya, Kumkum Dubey, Ankush Pandey, Prince Rajpoot, Shivendu Mishra and Ritika Yaduvanshi
12	173	Analysis of Healthcare Industry Using Machine Learning Approach: A Case Study in Bengaluru Region	Poornima Taranath, Sweta Das and Dr.S.Gowrishankar Nath

Venue Incharge: Faculty: Dr. Irani Hazarika (8486965773)

R/S: Mr. Sudipta Hazarika (7002092068)

Session Incharge: Mr. Anjan Kumar Talukdar (9401143294)

R/S: Mr. Mrinmoy Sandilya (7002904959)

ICAESE-2019

Session-2

Date: 02.11.2019: 3.00 to 6.00 pm

Venue_2: GUIST Gallery-1

Invited Speaker: Prof. Cristian Sisterna

Topic: Designing Digital Systems with SoPC

Chair Person: Prof. M.K. Bhuyan (3612582523)

Sl No.	Paper ID	Title	Authors
1	226	Design and Development of a LF Receiver for Detection of Atmospheric Lightning	Mrinmay Medhi and Hirakjyoti Goswami
2	74	Design of a Scalable 4G Portable Network Using Low Cost SDR And Raspberry Pi	Nupur Choudhury, Chinmoy Kalita, Suman Bhowmick and Kandarpa Kumar Sarma
3	85	A Matched Filter Based Spectrum Sensing System with Dynamic Threshold	Smriti Talukdar, Manash Pratim Sarma and Kandarpa Kumar Sarma
4	114	A Sense Based Semantic Similarity Measure Using A Shallow Neural Network	Nazreena Rahman, Salma Sultana and Abhinav Kashyap
5	115	Use of radiofrequency interaction technique in the determination of livestock health parameters	Dipankar Sutradhar and Durlav Hazarika
6	121	Method of Refining the Determination of the Frequency of Monoharmonic Signal using Discrete Fourier Transform	Dmitrii Kaplun, Vyacheslav Gulvanskii and Ivan Kanatov
7	123	Distortion Level Analysis of a 2D Median Filter With a Weighted Central Element	Dmitrii Kaplun, Maria Kiladze, Anzor Orazayev, Nikolay Chervyakov and Pavel Lyakhov
8	174	ICI Analysis and Mitigation with Dynamic Fixed Region Cooperation in 5G HetCN	Janmoni Borah, Md. Anwar Hussain and Joyatri Bora
9	177	DTW based Modulation Detection-Verification using Software Defined Radio	Khushboo Teronpi, Manasjyoti Bhuyan, Aradhana Misra and Dr. Kandarpa Kumar Sarma

Venue Incharge: Faculty: Dr. Ram Kishore Roy (9854549598)

R/S: Ms. Tushadri Baruah (9101920310)

Session Incharge: Mr. Nairit Barkataki (9706107936)

Ms. Nilakshi Devi (9435009663)

ICAESE-2019

Session-2

Date: 02.11.2019: 3.00 to 6.00 pm

Venue_3: GUIST Gallery-2

Invited Speaker: Dr. Norhana Arsad

Topic: Tapered Fibre for Sensing Application

Chair Person: Dr. J.J. Das, Michigan State University, USA

Sl. No.	Paper ID	Title	Authors
1	6 Skype	Structural Strength Analysis of Locking Device in Gauge Change Train	Yuxing Wu and Binjie Wang
2	21	Investigation on the classification accuracy of harmonic signals in artificial neural network (ANN) using training sets of randomised amplitude and phase	Archana Bora
3	40	Accelerating expansion of universe in modified gravity	Tame Achi and Shanjit Singh
4	41	STUDY ON SUBSTRATE DEPENDENCY OF GRAPHENE BASED PATCH ANTENNAS FOR GIGAHERTZ AND TERAHERTZ APPLICATIONS	Dilruba Khanam, Kaustubh Bhattacharyya, Kandarpa Kumar Sarma and Sunandan Baruah
5	49	Electronic structure and magnetic properties investigation of cubic Fe ₃ O ₄	Riyajul Islam and J. P. Borah
6	133	Fourier analysis of firefly pulses at low temperature and under a strong static magnetic field	Angana Goswami, Mridusmita Phukan and Anurup Gohain Barua
7	140	Spectroscopic Investigation (IR and NMR) and HOMO-LUMO analysis of aromatic imines using theoretical approach	Merangmenla Aier, Shyamal Baruah and Amrit Puzari
8	164	ITO/HfO ₂ Based Hybrid Silicon Electro-Optical Modulator	Himanshu Das and Subhash Arya
9	165	Analysis of photodetector performance through front surface modification	Smriti Baruah, Santanu Maity and Joyatri Bora
10	194	Measurement of elastic scattering and transfer cross section on 10B + 40Ca system	Harun Al Rashid, Kushal Kalita and Mousumi Bhuyan
11	144	Scale variation in Leptonic and Semileptonic decay of B meson in a QCD potential mode	Krishna Kingkar pathak , Satyadeep Bhattacharya

Venue Incharge: Faculty: Dr. Manash Protim Goswami (8253816069)

R/S: Ms. Hiramoni Khatun (6002323670)

Session Incharge: Faculty: Dr. Manash P.C. Kalita (9954249036)

R/S: Mr. Saurav Sarma (9365785224)

ICAESE-2019

Session-2

Date: 02.11.2019: 3.00 to 6.00 pm

Venue_5: Geology Conference Hall-1

Invited Speaker: Dr. Norbahiah Misran

Topic: Development of Health Monitoring System for IoT with MySignals and LoRa

Chair Person: Prof. Kandarpa Kr. Sarma (9401454994)

Sl. No.	Paper ID	Title	Authors
1	37	Mining Fuzzy Association Rule from Educational Data	Rajkamal Sarma and Pankaj Kumar Deva Sarma
2	188	A hypothetical and observational affirmation of the belle of skin sparing effect in radiotherapy	Rangaraj Bhattacharjee, Dipankar Bhagabati and Luit Das
3	192	An Effective Tea Leaves Quality Verification method using Machine Learning approach	Minakshi Gogoi and Sutapa Chakraborty
4	195	Retinal Biometric Authentication	Debasmita Sarkar and Jyoti Prakash Medhi
5	197	Development of an IoT based Soil Parameters Monitoring System	Rehana Khatoon and Debashis Saikia
6	206	Implementation of Four-Probe Electrode Method to Study the Water Stresses in Khasi Mandarin Orange Plant	Rajdeep Choudhury, Sudipta Hazarika and Utpal Sarma
7	212	ANALYSIS OF GAS SENSORS USING TEMPERATURE MODULATION	Anindita Bora and Kanak Chandra Sarma

Venue Incharge: Faculty: Dr. J.J Laskar (9864025590)

Session Incharge: Mr. Shivarankan Goswami (9706421272)

Mr. Rajesh Ghosh

ICAESE-2019

Session-2

Date: 02.11.2019: 3.00 to 6.00 pm

Venue_6: Geology Conference Hall-2

Invited Speaker/Chair Person: Prof. Parag Phukan (9435111560)

Sl. No.	Paper ID	Title	Authors
1	44	Quant Hydrological System – Complexity Science Approach	Amit Wahurwagh and Akshay Patil
2	45	Characterization of biological aerosols in nearby locations of an industrial area of Dibrugarh, Assam during pre and post monsoon season	Debajit Borah, Binita Pathak, Ankita Khataniar, Indukalpa Das, Dipika Charingia, P.K Bhuyan and A.K Buragohain
3	87	Hydropower generation using Cascaded Savonius Turbine	Oying Doso and Sarsing Gao
4	207	Flood hazard risk mapping in the Belsiri River basin, Assam using GIS	Nilotpal Kalita, Dhrubajyoti Sahariah, Rana Sarmah and Ashok Kumar Bora
5	124	E-waste management and Green Computing: A green technology	Bhupali Sharma

Venue Incharge: Faculty: Dr. J.J Laskar (9864025590)

Session Incharge: Dr. Pranjit Hazarika

ICAESE-2019

Session-3

Date: 03.11.2019: 9.30 am -1.00 pm

Venue_1: Conference Hall, GUIST

Invited Speaker: Maria Liz Crespo

Topic: Designing Digital Systems with SoPC

Chair Person: Prof. Cristian Sisterna, Universidad Nacional San Juan, Argentina

Sl. No.	Paper ID	Title	Authors
1	10	Design and Implementation of FFT Processor in FPGA and Performance Analysis of ADCs of Digital Processing Electronics	Asif S Husain, B.B. Shrivastava, R.S. Gamad and T.A. Puntambekar
2	42	Approximation of Signals Belonging to Certain Lipschitz Classes by $(M, \lambda_n)(E, 1)$ Summability Means of Conjugate Series of Fourier Series	Shilpa Das and Hemen Dutta
3	92	Video Stabilization in compressed domain Using Camera Motion Estimation and Compensation	Dipjyoti Bhardwaj, Anjan Kumar Talukdar and Kandarpa Kumar Sarma
4	166	Switching Algorithm and Data Acquisition for Pigeon Hole Imaging System	Bikash Kumar Bhawmick, Muhammad Abdul Kadir and Khondkar Siddique Rabbani
5	190	Speech Enhancement using Convolutional Neural Network under Noisy Environment	Anindita Baruah, Mridusmita Sharma and Kandarpa Kr Sarma
6	203	Image Processing Framework for Detection of Cotton Wool Spots	Sanyukta Chetia and S.R. Nirmala
7	211	Development of Indoor Power Line Channel Simulators for use in Power Line Communication	Rubi Baishya, Banty Tiru and Utpal Sarma
8	225	Robust Real Time Multiple Human Detection and Tracking for Automatic Visual Surveillance System	Lakhyadeep Konwar, Anjan Kumar Talukdar and Kandarpa Kumar Sarma

Venue Incharge: Faculty: Dr. Irani Hazarika (8486965773)

R/S: Mr. Sudipta Hazarika (7002092068)

Session Incharge: Mr. Apurba Bikash Kalita (6001196221)

R/S: Mr. Raktim Koch (8638125613)

Mr. Naorem Yaipharenba Meiti (8812951831)

ICAESE-2019

Session-3

Date: 03.11.2019: 9.30 am -1.00 pm

Venue_2: Gallery_1, GUIST

Invited Speaker: Prof. Nani Gopal Mahanta (9435551777)

Chair Person: Prof. Jyotiprakash Tamuli (9435042679)

Sl. No.	Paper ID	Title	Authors
1	34	Social networking sites as an effective tool in tertiary level English language pedagogy in India: an ethnographic perspective	Nivedita Barua
2	101	The Impact of WhatsApp on Achievement of University Students	Sima Kalita
3	132	Internet Addiction in relation to Socio-demographic factors, Academic Performance and Spiritual Orientation of Secondary Students with special reference to Guwahati City, Assam, India	Polee Saikia and Sudeshna Nath
4	182	The Use Of Assamese Language On Facebook : Changes Observed From The Linguistic Perspective	Seuji Sarma
5	186	E-Shakti –A technological initiative of NABARD for digitization of Self Help Groups in India	Siddharth Nayan Sharma
6	187	Social Media and Human Value	Jaba Sharma
7	216	Language in Social media: A study on Assamese	Mouchumi Handique
8	221	The Role of Social Media in Shaping the Lifestyle of the Undergraduate Students - A Study	Purabi Baishya and Darsana Changkakoti

Venue Incharge: Faculty: Dr. Ram Kishore Roy (9854549598)

R/S: Ms. Tushadri Baruah (9101920310)

Session Incharge: Dr. Pranjana Kalita Nath

Dr. Khamseng Boruah

ICAESE-2019

Session-3

Date: 03.11.2019: 9.30 to 1.00 pm

Venue_3: Gallery-2, GUIST

Chair Person: Prof. Prodeep Phukan (9435111114)

Sl. No.	Paper ID	Title	Authors
1	72	Synthesis, Characterization and Electrochemical Study of Manganese(IV) Complexes Derived from Polyfunctional Glutaryldihydrazone	Pranjit Sarma, Pranami Mahanta, Chitrani Medhi, Okhil Medhi and Debajani Basumatary
2	75	Performance Analysis of Jacketed CSTR for a Second Order Reaction	Pranjal Kalita and Jyoti Kumar Barman
3	126	Study of Binding Interactions between Myoglobin and Sulfamethazine through Biophysical Tools and Computational Approach	Aben Ovung
4	135	Relaxor dielectric like behavior and magnetodielectricity observed in SmCrO_3 : a result of octahedral rotation and strong spin-lattice coupling	Arijit Ghosh
5	198	Mononuclear Manganese(IV) Complexes Derived from Polyfunctional Fumaryldihydrazone	Pranami Mahanta, Pranjit Sarma, Chitrani Medhi, Okhil Kumar Medhi and Debajani Basumatary
6	199	Synthesis and Characterization of Phenethylammonium lead iodide/ bromide based Perovskite for solar cell application	Rajib Saha, Dhiraj Sonowal, Jitul Hazowary, Manash Jyoti Rabha, Mahua Gupta Choudhury and Samrat Paul
7	201	Synthesis and Characterization of Spin Coated Co_3O_4 Thin Films	Md. Johurul Islam, Farzana Irin and Md. Ariful Islam Nahid
8	218	Grain size variation and Optical Studies ZnS , ZnS-Mn Nano Materials	Apurba Kr. Das and Biren Das

Venue Incharge: Faculty: Dr. Manash Protim Goswami (8253816069)

R/S: Ms. Hiramoni Khatun (6002323670)

Session Incharge: Faculty: Dr. Ranjit Thakuria (9707930828)

R/S: Ms. Kashyap Sarma

Ms. Poonam Deka

ICAESE-2019

Session-3

Date: 03.11.2019: 9.30 to 1.00 pm

Venue_4: Conference Hall, New Academic Building

Chair Person: Prof. Anjana Kakoti Mahanta (9864425716)

Sl. No.	Paper ID	Title	Authors
1	24	A High Performance Global Routing Algorithm on Julia Parallel Computing Platform	Meenakshi Agarwalla, Manash Pratim Sarma and Kandarpa Kumar Sarma
2	25	Extended Biswapped Network with its Performance Comparison and Analysis	Ashish Gupta
3	30	Performance analysis of SVM classifier for plant disease classification	Utpal Barman, Ridip Dev Choudhury and Animesh Sarmah
4	62	Implementation and Analysis of different POS Tagger in Khasi Language	Risanlang Hynniewta, Sunita Warjri and Arnab K Maji
5	103 Skype	Agricultural Bot with Cloud Management Services	Nachiket Kulkarni, Tanay Rajwal, Amit Thakur, Rupali Tornekar and Saraswati Patil
6	125	An Error Weighted Optimum Step-Size Choice for NLMS Based Adaptation Technique	Md.Abdur Rahman Al-Mahadie, Dr. Rubaiyat Yasmin, Mirza A.F.M Rashidul Hasan, Most.Meftahul Zannat and Shihab Kaviraz
7	142	New direction in Cryptography: Homomorphic Encryption	Alla Levina, Victor Kadykov and Dmitrii Kaplun
8	167	Investigation of Threats, Vulnerabilites, Attacks and Approaches in Wireless Sensor Network	Chaya P and Nandini Prasad K S
9	168	Effect of Fermentation Conditions on Brightness of Tea Liquor	Debashis Saikia, P. K. Boruah and Utpal Sarma

Venue & Session Incharge: Faculty: Dr. Hemen Kalita (7002756115)

R/S: Biswajit

Anurag

Rajesh

Mrinmoy

ICAESE-2019

Session-3

Date: 03.11.2019: 9.30 to 1.00 pm

Venue_5: Conference Hall-1, Geology

Chair Person/Invited Speaker: Dr. Sawal Hamid Md. Ali

Topic: Disruptive Technology Shaping our Future

Sl. No.	Paper ID	Title	Authors
1	89	Design of Low Noise Amplifier For ISM Band Application in 2.4 GHz	Sudarshan Goswami, Naorem Yaipharenba Meitei and Kandarpa Kumar Sarma
2	106	A Dual Band Polarization Insensitive Microwave Absorber with a Transmission Window at 2.4 GHz ISM Band	Gobinda Sen, Anumoy Ghosh and Santanu Das
3	117	Data Communication using SDR based Cognitive Radio	Bhagyashree Patra, Amitava Dey and Kandarpa Kumar Sarma
4	119	SDR based Energy Detection Spectrum Sensing in Cognitive Radio for Railway Locomotive Alert	Anjali Choudhury, Amitava Dey and Kandarpa Kumar Sarma
5	183	Analysis of Analog Signal Transfer using Visible Light Communication System for Biomedical Applications	Sujit Chatterjee, Banty Tiru, Rubi Baishya and Debashis Saikia
6	220	Development of a hybrid communication system using visible light and indoor power line for monitoring of weather parameters	Sujit Chatterjee, Banty Tiru and Rubi Baishya

Venue Incharge: Faculty: Dr. J.J Laskar (9864025590)

Session Incharge: Ms. Aparajita Das (8761990520)

Ms. Archana Mishra (9706926499)

Mr. Sivaranjan Goswami (9706421272)

Mr. Mrinmoy Medhi

ICAESE-2019

Session-3

Date: 03.11.2019: 9.30 to 1.00 pm

Venue_6: Conference Hall-2, Geology

Chair Person: Prof. Sunandan Baruah

Sl. No.	Paper ID	Title	Authors
1	156	Evaluation of antibacterial activity of CuO nanostructures prepared by sol-gel method	Chandrama Kalita and Sanjib Karmakar
2	161	Effect of intra-band tunneling on the performance of lead free Sn-based perovskite solar cell using SCAPS-1D simulator	Kunal Chakraborty
3	172	Electrical, Optical and Structural Properties of Magnesium Doped Zinc Oxide Thin Films by Spin Coating Technique	Samir Karmaker, Md Ariful Islam Nahid and Md. Johurul Islam
4	178	Size distribution dependent tunable surface plasmon resonance of Ag nanoparticles grown by magnetron sputtering	Dipak Barman, Lucky Saikia and Bimal Sarma
5	179	Fabrication and Characterization of Silver Nanorod assisted Optical Filters tailored in visible domain	Arnab Kumar Sarkar, Himanshu Rajbongshi, Sunandan Baruah and Pranayee Datta
6	191	Structural and optical properties of CdS, PbS and their core-shell nanostructures	K. C. Handique and P. K. Kalita
7	196	Synthesis and characterization of Iron oxide nanoparticles by microwave method	Priyanko Protim Gohain, Rahul Singh Chutia, Mahua Gupta Choudhury, Rajib Saha and Samrat Paul
8	27	Chemically synthesized surface modified graphene for efficient and high sensitive detection of toxic gases	Rajesh Ghosh, Anurag Kashyap, Biswajit Dehingia and Hemen Kalita
9	181	Graphene oxide as an adsorbent for the efficient removal of dye from waste water	Biswajit Dehingia, Rajesh Ghosh and Hemen Kalita

Venue Incharge: Faculty: Dr. J.J Laskar (9864025590)

Session Incharge: Faculty: Bimal Sarma (9859159571)

R/S: Jnanraj Borah (8638418331)

ICAESE-2019

Session-4

Date: 03.11.2019: 2.00 to 4.00 pm

Venue_1: Conference Hall, GUIST

Chair Person: Prof. A.G. Barua (9957257821)

Sl. No.	Paper ID	Title	Authors
1	28	ZnO based Solar Cell using ZnS Quantum Dots as Photo- Sensitizing Layer	Gautam Gope and Abhigyan Ganguly
2	53	Synthesis and luminescence studies of sol-gel derived TiO ₂ nanoparticles doped with EU ³⁺ and Tb ³⁺ ions	S. Rai and P.J. Dihingia
3	55	A Study of Pristine and Cu Doped CdS Nanoparticles with Antimicrobial Activities	Pritisha Dakuwa, Santanu Bardaloi, Debajit Thakur and Rajkumari Mazumdar
4	82	Chitosan modified Fe ₃ O ₄ nanoparticles for hyperthermia application	Molongnenla Jamir, Subenthung P Tsopoe, Chandan Borgohain and J.P. Borah
5	112	Recent Advancement on Dye Sensitized Solar Cell (DSSC): A Review	Biswajit Mandal, Tapas Chakrabarti and Partha Sarathee Bhowmik
6	120	Evidence of Semiconducting behaviour in pencil graphites	Smritimala Sarmah, Dipsikha Kalita, Nilanjiv Das, Kalpajyoti Neog and Riya Pathak
7	137	Anodic Aluminum Oxide (AAO) Nano Porous Membrane Fabrication: Effect of Anodization time	Trishna Moni Das, Hoque Shehenaz Shamim, Sankar Moni Borah and Sunandan Baruah
8	141	Phenomenology of Joglekar Window Function for Thin Film Memristor	Barnali Pathak, Jyoti Prasad Roy Choudhury, Remo Singfo, Pradip Kumar Kalita, Ngangom Aomoa and Nayan Mani Nath
9	210	An approach to design memristive sensor of E.coli based on antibacterial effects of undoped and Cu-doped Zinc Sulphide nanoparticles	Himadri Duwarah, Neelotpal Sharma, Kandarpa Kumar Saikia and Pranayee Datta

Venue & Session Incharge: Faculty: Dr. Hemen Kalita (7002756115)

R/S: Biswajit

Anurag

Rajesh

Mrinmoy

ICAESE-2019

Session-4

Date: 03.11.2019: 2.00 am -4.00 pm

Venue_2: Gallery-1, GUIST

Chair Person: Dr. Dmitry Kaplun (20 min max)

Topic: Distortion Level Analysis of a 2D Median Filter With a Weighted Central Element

Sl. No.	Paper ID	Title	Authors
1	19	Implementation of Convolutional Neural Network for Speech to Text conversion	Meghali Deka, Mridusmita Sharma and Kandarpa Kumar Sarma
2	84 Skype	Presence Prediction Model using Logistic Regression	Rajvi Shah, Rushikesh Pandya and Shrey Nadiadwala
3	104	Hand Gesture Representation: A Brief Overview	Debajit Sarma and Manas Bhuyan
4	109	DOCUMENT CLUSTERING - A FUZZY APPROACH	Naba Sarmah, Dwipen Laskar and Puspakshi Sarma
5	111	Week-ahead Forecasting of Household Energy Consumption using CNN and Multivariate Data	Vanita Agrawal, Kandarpa K. Sarma and Pradyut K. Goswami
6	113	The computation of the probability of ultimate ruin for the mixture of three exponentials in the presence of interest rate	Jagriti Das
7	128	Automated cervical dysplasia detection: a multi-resolution transform based approach	Kangkana Bora, Lipi B Mahanta and M. K. Bhuyan
8	129	Improved Classification of PCBs with Gabor and Statistical features	M. K. Bhuyan, Kangkana Bora and Yuji Iwahori
9	151	IMPLEMENTATION OF CONVOLUTIONAL NEURAL NETWORK FOR PREDICTION OF EMOTIONS IN SPEECH	Anindita Gogoi, Mridusmita Sharma and Kandarpa Kumar Sarma

Venue Incharge: Faculty: Dr. Ram Kishore Roy (9854549598)

R/S: Ms. Tushadri Baruah (9101920310)

Session Incharge: Dr. Vaskar Deka (8812858844/9864585129)
Ms. Mridusmita Sharma (9706970204)

ICAESE-2019

Session-4

Date: 03.11.2019: 2.00 am -4.00 pm

Venue_3: Gallery-2, GUIST

Chair Person: Dr. Sashikant Sadistap, CSIR-CEERI (9414742992)

Topic: Embedded IoT and its applications (20 min max)

Sl. No	Paper ID	Title	Authors
1	11	Impact of RF Cross-talk of Processing Electronics on Beam Position Measurement in Particle Accelerators	B. B. Shrivastava, Y. M. Sheth and T. A. Puntambekar
2	12	Design and Development of Single Pass Digital Beam Position Measurement Electronics for IRFEL-Linac	B. B. Shrivastava, M. Chouhan, Y. Tyagi and T. A. Puntambekar
3	32	Demand Side Management for Active Power Control of organic Rankine cycle solar thermal system based Autonomous Hybrid Power System	Ghoshika Das and Dulal Chandra Das
4	52	Comparative Performance Analysis using ESO Optimal Controller for a Rotational Electro-Mechanical System	Piyali Das, Ram Krishna Mehta and Om Prakash Roy
5	58	IoT platform based Smart Assistant for Surveillance	Debalina Banerjee, Akashjyoti Banik, Sanjib Kumar Singh and Kandarpa Kumar Sarma
6	105	A Hardware/Software Architecture for Remote Control of SoC-FPGA Based Reconfigurable Virtual Instrumentation	Bruno Valinoti, Luis Garcia, Maria Liz Crespo, Andres Cicuttin, Werner Florian, Kasun Mannatunga and Rodrigo Alejandro Melo
7	152	Development and Characterisation of Patch and Bowtie Antennae for Performance Investigation of Ground Penetrating Radar	Nairit Barkataki, Chandramita Bordoloi, Banty Tiru and Utpal Sarma
8	219	UrHeart: Non-invasive Human Health Monitoring System using AD8232 based on IoT System	Aiman Hakim Mohd Rozali, Norhana Arsad and Kok Beng Gan

Venue Incharge: Faculty: Dr. Manash Protim Goswami (8253816069)

R/S: Ms. Hiramoni Khatun (6002323670)

Session Incharge: Mr. Sivaranjan Goswami (9706421272)

Mr. Rajesh Ghosh