

**Report**  
**“International Conference on Advances in Mathematics, Science and Technology”**  
**(ICAMST–2020)**  
**(Blended Mode)**

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**Part – I                      Organisation Committee**

<b>Chief Patron</b>	Prof. Saket Kushwaha, Vice Chancellor, RGU.
<b>Patron</b>	Prof. Amitava Mitra, Pro-Vice Chancellor, RGU.
<b>Patron</b>	Prof. Tomo Riba, Registrar i/c, RGU.
<b>Patron</b>	Prof. Pradip Kumar Kalita, Dean Faculty of Basic Sciences, IT & Engineering, RGU.
<b>Convener</b>	Prof. Sahin Ahmed, Former Head, Department of Mathematics, RGU.
<b>Coordinator</b>	Mr. Bhaskar Jyoti Chutia, Department of Computer Science & Engineering, RGU.

**Scientific Committee –**

1. Prof. Dinesh Singh  
Former Vice Chancellor, University of Delhi.  
Professor, Department of Mathematics, University of Delhi, Delhi, India.
2. Prof. Satyajit Roy, FNASc  
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3. Prof. Anant R. Shastri  
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4. Prof. G. C Hazarika  
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8. Prof. S. N. Bora  
Department of Mathematics, IIT Guwahati, Assam, India.
9. Prof. M. Sheikholeslami  
Department of Mechanical Engineering, Babol Noshirvani University of Technology, Babol, Iran.
10. Prof. Taher Armaghani  
Shahrood University of Technology, School of Mechanical Engineering, Shahrood, Iran.
11. Prof. K. Vajravelu  
Department of Mathematics, University of Central Florida, Orlando, FL 32816, USA.
12. Prof. J. V. Ramana Murthy  
Department of Mathematics, National Institute of Technology Warangal, India.
13. Prof. Mehdi Eslami

## Editorial Board (Abstracts) –

1. Prof. G. C Hazarika
2. Prof. S. N. Bora
3. Prof. Sahin Ahmed
4. Prof. R. P. Sharma
5. Prof. M. Sheikholeslami

## Part – II International Conference (Blended Mode)

“International Conference on Advances in Mathematics, Science and Technology” (ICAMST–2020) organized by Department of Mathematics, Rajiv Gandhi University, Rono Hills, 791112, Arunachal Pradesh, India during 1–3 September, 2020.

### 2.1: Background / Concept Notes and Objectives –

The overwhelming effects of COVID–19 Pandemic on University Education and Researches are drawing special attention by the experts so that the whole Education system is able to adjust with the new reality. To overcome a little from such situation, Universities and other Educational Institute have employed advanced online platform and adopt new Technologies to impart Education in safe, user friendly and accessible to all in a reasonable cost. ICAMST–2020 is also a result of such thinking.

In such a scenario, International Conference on Advances in Mathematics, Science and Technology–2020 (ICAMST–2020) organized by Department of Mathematics, Rajiv Gandhi University, India is aimed to provide a common online platform for Researchers, Scientists, Engineers and other interested professionals to present their latest findings, ideas, developments and applications covering aspects of the History and Development of Mathematical Sciences with their latest Applications. This Conference is the premium forum for the presentation of new advances, research results and to discuss the future trends in the fields of Mathematics along with Science and Technology by exchanging knowledge.




This Conference brings a key platform to share experiences and propose strategic approvals to strengthen the role of Mathematics and Allied Sciences in our real world.

The Conference had a high standard of presentations and there was significant interest from participants to be involved in the invention of the best output of their research work. Each Speaker discussed various recent developments and Delivered Talk with the aim of making improvements in the respective research areas.






### 2.2: Themes and Sub-themes






The Conference adopts a timely title and theme, which has penetrated into almost all areas of Mathematics involving Science and Technology from the most basic level to the most complex level for scientific research and investigations. I think this Conference brushes upon a spectrum of exciting and benefitting knowledge. The invited speakers from different countries in the Conference had contributed their high quality conceptual, constructive, experimental, or theoretical research work in the areas of Mathematics and Applications, which will provide an opportunity for young researchers to update their knowledge in recent trends in different research areas of mathematics.

## 2.3: Details of the Resource Persons

Sl. No.	Resource Person(s)	Photograph(s)
1	<p><b>Prof. Dinesh Singh</b> Former Vice Chancellor, University of Delhi, Delhi Professor, Department of Mathematics, University of Delhi, Delhi, India Email Id: <a href="mailto:dineshsingh1@gmail.com">dineshsingh1@gmail.com</a></p> <p><b>Chancellor</b> K. R. Mangalam University Gurugram, Haryana, India</p> <p><b>Chief Guest, ICAMST-2020</b> <b>Padma Shri</b> <b>Professor Dinesh Singh</b></p>	
2	<p><b>Prof. Mohsen Sheikholeslami</b> Department of Mechanical Engineering, Babol Noshirvani University of Technology, Babol, Iran Email: <a href="mailto:Mohsen.sheikholeslami@nit.ac.ir">Mohsen.sheikholeslami@nit.ac.ir</a></p>	
3	<p><b>Prof. B. S. Dandapat</b></p> <p>Former Head of Physics &amp; Applied Mathematics ISI Calcutta, Kolkata, W. B., India. Email Id: <a href="mailto:bsdandapat@rediffmail.com">bsdandapat@rediffmail.com</a> <a href="mailto:bsdandapat@gmail.com">bsdandapat@gmail.com</a></p>	

4	<p><b>Prof. Anant R. Shastri</b>  Department of Mathematics,  IIT Bombay, Mumbai, Maharashtra, India.  Email: <a href="mailto:Anant.shastri@gmail.com">Anant.shastri@gmail.com</a></p>	
5	<p><b>J. V. Ramana Murthy</b>  Professor (HAG)  <b>Department of Mathematics</b>  National Institute of Technology Warangal – 506 004  Tel +91-870-2462813 (O)  Mobile : +918332969449  Email : <a href="mailto:jvr@nitw.ac.in">jvr@nitw.ac.in</a></p>	
6	<p><b>Dr. Mahdi Eslami</b>  Faculty member of Electrical Engineering Department,  West Tehran Branch,  Islamic Azad University, Tehran, Iran.  Floor 4, Block 3, Central Organization of Islamic Azad  University, Daneshgah Blvd, Moradabad, Tehran, Iran,  Cell: (98) 912-333-1943, 02147353422,  Email: <a href="mailto:m.eslami@ut.ac.ir">m.eslami@ut.ac.ir</a>,  <a href="mailto:mahdeslami@gmail.com">mahdeslami@gmail.com</a></p>	
7	<p><b>Dr. Noor Fadiya Mohd Noor</b>  Senior Lecturer cum  Assistant Deputy Head of Research &amp; Innovation  Institute of Mathematical Sciences, Faculty of Science,  University of Malaya.  Email: <a href="mailto:drfadiya@um.edu.my">drfadiya@um.edu.my</a></p>	

8	<p><b>Dr. Swati Mukhopadhyay</b>  <b>BOYSCAST Fellow</b>  <b>Professor (Mathematics)</b>  Department of Mathematics. The University of Burdwan  Burdwan-713104, West Bengal, India.  Emails: swati_bumath@yahoo.co.in,  smukhopadhyay@math.buruniv.ac.in  Telephone: +919735119297</p>	
9	<p><b>Prof. Satyajit Roy, FNASc</b>  Professor of Mathematics  Department of Mathematics, I.I.T. Madras, Chennai.  Email: sjroy@iitm.ac.in  Ph: +91-44-22574617  Fax: +91-44-22574602</p>	
10	<p><b>Dr. Swaroop Nandan Bora</b>    <b>Professor of Mathematics</b>  Department of Mathematics  Indian Institute of Technology Guwahati,  Guwahati-781039, Assam, India.  Contact: Phone: +91 361 258 4604 (Res),  361 258 2604 (Work) 99540 12699 (Mobile).</p>	
11	<p><b>Dr. Sahin Ahmed</b>  Professor of Mathematics,  Department of Mathematics  Rajiv Gandhi University (A Central University)  Convener, ICAMST-2020.  Email: sahin.ahmed@rgu.ac.in ,  nanofluid.sahin@gmail.com  Ph: +91-7085759135</p>	
12	<p><b>Prof. Taher Armaghani</b>    Shahrood University of Technology,  School of Mechanical Engineering,  Shahrood, Iran.  Email: armaghani.taher@yahoo.com</p>	

13	<p><b>Dr. Shuvam Sen</b> Associate Professor Department of Mathematical Sciences, Tezpur University, Tezpur-784028, Assam, India. Email: shuvam@tezu.ernet.in</p>	
14	<p><b>Dr. Bhim Prasad Sarmah</b> Associate Professor Department of Mathematical Sciences, Tezpur University, Tezpur-784028, Assam, India. Phone(Ext.): 03712-27-5501/5504 Email: bhim@tezu.ernet.in</p>	
15	<p><b>Prof. Tazid Ali</b>  Department of Mathematics, Dibrugarh University, Dibrugarh, Assam, India. Email: tazid@dibru.ac.in</p>	
16	<p><b>Prof. Gopal Hazarika</b> Department of Mathematics, Dibrugarh University, Dibrugarh, Assam, India. Director i/c, Centre for Computer Science and Applications, Dibrugarh University Email: gchazarika@gmail.com</p>	
17	<p><b>Dr. Ram Prakash Sharma</b>  Department of Mechanical Engineering, National Institute of Technology, Yupia, Papum Pare, Arunachal Pradesh-791112, India. Email: rpsharma@nitap.ac.in Website: <a href="https://www.nitap.ac.in">https://www.nitap.ac.in</a></p>	



<b>18</b>	<p><b>Dr. Binod Chandra Tripathy</b>  Department of Mathematics,  Tripura University (A Central University)  Suryamaninagar,  Agartala-799022 Tripura. India.  E-mail: tripathybc@yahoo.com ;  tripathybc@rediffmail.com ;  binodtripathy@tripurauniv.in  Phone: 09864087231 (Mobile)</p>	
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## 2.4: Sponsoring Agency (if any) and Details of the Sponsorship

**No Sponsorship (No Financial Assistance has received from any Agency).**

## Part – III Session-wise Details

### 3.1: Inaugural Session

RGU Vice Chancellor Prof. Saket Kushwaha as the Chairman, Padmashree Prof. Dinesh Singh, former Vice Chancellor, University of Delhi as the Chief Guest and Prof. Satyajit Roy of the Department of Mathematics, IIT Madras as the Guest of Honour graced the inaugural session of the international conference. RGU Pro VC Prof. Amitava Mitra, RGU Registrar Prof. Tomo Riba, Dean, Faculty of Basic Sciences, Prof. P.K. Kalita and other senior professors along with participants from various parts of India, Iran, Bangladesh, Malaysia and Nepal, also attended the inaugural session, among others.

In this session, Prof. Sahin Ahmed, Convener, delivered his speech on the concept and motives of organizing the ICAMST-2020. Expressing his joy at the enthusiasm shown by the participants, he stated that abstracts from various departments other than mathematics like computer Science, Statistics, Physics, Chemistry, and many other branches of allied sciences have been received for the conference.

In the chairman's address, RGU Vice Chancellor Prof. Saket Kushwaha dwelled upon various aspects of the international conference while asserting that such type of conferences on mathematics, science and technology would be beneficial to Arunachal Pradesh where mathematics achievement is very poor.

Hailing the conference as 'a good thing for us', the Vice Chancellor appreciated the efforts of convener Prof. Sahin Ahmed in organizing such international conferences and stated that Prof. Ahmed is an experienced person and he had already conducted several conferences. Such types of conferences organized through Department of Mathematics are very useful, he added.

Padmashree Prof. Dinesh Singh as the Chief Guest of the session gave the keynote deliberation and pointed out many aspects of the international conference as to 'why it was necessary and why we interact here during this COVID 19 pandemic times'. He urged the participants to attend each and every resource person's sessions to exchange their views. The Guest of Honour of the inaugural session Prof. Satyajit Roy spoke on the topic 'Role of Mathematical Modeling in Industrial Waste Management System using mixed Convection Phenomena.' He highlighted the uses and benefits of the conference to the society.

RGU Pro VC Prof Amitava Mitra, while addressing the session talked about the importance of research in mathematics while Prof. Tomo Riba in his speech highlighted the usefulness of the conference in contemporary times. Prof. P.K. Kalita also reiterated in his speech the usefulness and significance of such types of international conferences.

The inaugural session concluded with the organizing coordinator Mr. Bhaskar Jyoti Chutia extending the vote of thanks to the dignitaries and participants.

### 3.2: Plenary Sessions

#### Invited Speakers

Name	Title
Prof. Dinesh Singh Keynote Speaker as Chief Guest	The origins of Functional Analysis and Hilbert space Operator Theory
Prof. Mohsen Sheikholeslami	Molding of Solar Systems with Nanofluid
Prof. Anant R. Shastri	Local Parallel Reparameterization of Smooth Surfaces
Prof. J. V. Ramana Murthy	Biharmonic Equations and Their Applications
Prof. B. S. Dandapat	Waves on The Surface of A Conducting Falling Liquid Film In Presence of Electromagnetic Field

Prof. Swati Mukhopadhyay	Techniques and Applications of Computational Fluid Dynamics
Prof. Satyajit Roy	Role of Mathematical modeling in industrial waste management system using mixed convection phenomena
Prof. Swaroop Nandan Bora	Water Wave Scattering and Trapping of by a Composite Porous Breakwater Placed on an Elevated Bottom In A Two-Layer Fluid Flowing Over A Porous Sea-Bed
Prof. Sahin Ahmed	Solutions of Flow Models & Garbage Outcomes
Prof. Taher Armaghani	Nanofluid Application in Engineering
Prof. Gopal Chandra Hazarika	Shooting Method
Dr. Mehdi Eslami	Applications of 5G and IoT Technologies in Smart Cities
Dr. Noor Fadiya Mohd Noor	Hybrid Nanofluid Flow over a Stretchable Sheet
Dr. Shuvam Sen	A new Compact Finite Difference Approximation of the Navier-Stokes Equation

### 3.3: Technical Sessions –

#### Time Schedule of Technical Sessions

Day 1 (1 September 2020)			
Technical Session – I (Online Platform: ZOOM)			12:25 PM – 01:25 PM (India)
Chairperson: Prof. R. P. Sharma Department of Mathematics, NIT Arunachal Pradesh, India.			
Paper ID	Name of the Participant	Title of the paper	Email Address
A-1	PHEIROIJAM SURANJOY SINGH	Interacting Matter and Dark Energy Model in Higher Dimensional Space Time	<a href="mailto:surphei@yahoo.com">surphei@yahoo.com</a>
A-2	ABHIGYAN MAHANTA	A Novel Generalization of Randić matrix	<a href="mailto:am02dib@gmail.com">am02dib@gmail.com</a>
A-3	IDWEEP JYOTI GOGOI	A novel generalization of Zagreb Matrix of a Graph	<a href="mailto:igogoi1995@gmail.com">igogoi1995@gmail.com</a>
A-4	DR SONALI BHATNAGAR	The muon telescope : An old but fundamental experiment for undergraduates in high energy physics	<a href="mailto:sonalibhatnagar@dei.ac.in">sonalibhatnagar@dei.ac.in</a>
A-5	DR.P.MEENAPRIYA	A Study of the effect of thermal electric number and couple stress parameter on the heat transfer of atmospheric aerosols	<a href="mailto:meenapriyapal@gmail.com">meenapriyapal@gmail.com</a>
A-6	ANIRBAN GOSWAMI	Confidence Intervals of Multivariate Stress-Strength Reliability	<a href="mailto:anirbangoswami09@gmail.com">anirbangoswami09@gmail.com</a>
A-7	SATYANARAYANA GEDELA	Mathematical modelling of compact stars PSR J1614-2230 , Cen X-3, SAX J1808.43658 in existence of anisotropy using embedding class I condition	<a href="mailto:satya235@gmail.com">satya235@gmail.com</a>
A-8	DR.T R RAMESH RAO	Computational method for solving nonlinear chemistry problem	<a href="mailto:rameshrao@crescent.education">rameshrao@crescent.education</a>
A-9	AJIT KUMAR GUPTA	Nonempty Intersection Theorems in Metric Spaces	<a href="mailto:emailstoajit@gmail.com">emailstoajit@gmail.com</a>
A-10	RIYAJUR RAHMAN	New Congruences For Fractional Partitions Functions Modulo Odd Prime	<a href="mailto:riyajurrahman@gmail.com">riyajurrahman@gmail.com</a>
A-11	TARUSHREE BARI	Estimation of the mean of the sensitive variable in presence of non sensitive auxiliary variable	<a href="mailto:taru9494@gmail.com">taru9494@gmail.com</a>
A-12	KARISHMA KARAM AHMED	Study of Heat Generation/Absorption on Free Convective Radiating Fluid with Soret effect for a Two-Dimensional Unsteady Hydromagnetic Flow Through a Porous Medium	<a href="mailto:karishma.ahmed76@gmail.com">karishma.ahmed76@gmail.com</a>



Day 1 (1 September 2020)			
Technical Session – II (Online Platform: GoToMeeting) Chairperson: Prof. Binod Chandra Tripathy Department of Mathematics, Tripura University, Tripura, India.			12:25 PM – 01:25 PM (India)
Paper ID	Name of the Participant	Title of the paper	Email Address
B-1	NABIN KUMAR POKHREL	Integer Codes Correcting Asymmetric Bursts within a Byte and Connected between two Adjoining Bytes.	<a href="mailto:pokhrelnbn@gmail.com">pokhrelnbn@gmail.com</a>
B-2	BARNALI BARMAN	A numerical study on the influence of the layer thickness on PbS based solar cell by SCAPS-1D	<a href="mailto:barman.barnali3@gmail.com">barman.barnali3@gmail.com</a>
B-3	UPASHANA GOGOI	Quasiperiodicity and Mode locking in a two dimensional nonlinear map	<a href="mailto:upashanagogoi122@gmail.com">upashanagogoi122@gmail.com</a>
B-4	RAHUL KUMAR	Solving duality for nonsmooth semidefinite programming problems using convexificators	<a href="mailto:kumarahul1992bhu@gmail.com">kumarahul1992bhu@gmail.com</a>
B-5	NAVALAKHI HAZARIKA	C-closed N-subgroups and their relations with different honest N-subgroups	<a href="mailto:navalakhihazarika.dutta@rgi.edu.in">navalakhihazarika.dutta@rgi.edu.in</a>
B-6	PATEL JVALANTKUMAR KANAIYALAL	Survey on textile quality control using image processing	<a href="mailto:jvalant007@gmail.com">jvalant007@gmail.com</a>
B-7	MR. GHANWAT ARUN JAGANNATH	The New Kamal Transform: Properties and Applications	<a href="mailto:pushkar1967@rediffmail.com">pushkar1967@rediffmail.com</a>
B-8	AJOY HATIBARUAH	Application of preservation technology investment in an inventory model for ameliorating and deteriorating items with price and time dependent ramp-type demand	<a href="mailto:hatibaruahajoy@gmail.com">hatibaruahajoy@gmail.com</a>
B-9	ACHINTA SAIKIA	A Mathematical Modelling on Control the COVID-19 Outbreak in North-East India	<a href="mailto:achintasaikia373@gmail.com">achintasaikia373@gmail.com</a>
B-10	DR. TAJA YAYING	On some new BK-spaces derived by (p,q)-Cesàro Matrix	<a href="mailto:tajayaying20@gmail.com">tajayaying20@gmail.com</a>
B-11	RUBY CHANCHAL	Stochastic Comparisons of Series and Parallel Systems with Topp-Leone Generated Family of Distributions	<a href="mailto:rbychanchal21@gmail.com">rbychanchal21@gmail.com</a>
B-12	K.KRISHNA KUMARI	The Open Detour Monophonic Number of a Graph	<a href="mailto:krishnakumarikr@yahoo.com">krishnakumarikr@yahoo.com</a>

Day 1 (1 September 2020)			
Technical Session – III (Online Platform: ZOOM) Chairperson: Prof. M. Sheikholeslami Department of Mechanical Engineering, Babol Noshirvani University of Technology, Babol, Iran.			(03:30–04:30 PM, India) (2:30-3:30 PM, Iran)
Paper ID	Name of the Participant	Title of the paper	Email Address
C-1	ABHAY KUMAR JHA	MHD flow and heat transfer in a channel with heat generation/ absorption	<a href="mailto:itsabhay@rediffmail.com">itsabhay@rediffmail.com</a>
C-2	SHILPA	Study of heat and flow transfer characteristics of gold-blood nanofluid over non-linear stretching sheet	<a href="mailto:shilpataneja1992@gmail.com">shilpataneja1992@gmail.com</a>
C-3	BIKASH KOLI SAHA	Hydromagnetic and Slip Impact on Heat Transport for Elastico-Viscous Fluid Flow past a Flat Moving Plate	<a href="mailto:bikashkoli100@gmail.com">bikashkoli100@gmail.com</a>
C-4	SARFRAZ AHMED	A Mathematical Model for Blood Flow through a Narrow Artery with Stenoses	<a href="mailto:sarfrazahmed.jrt@gmail.com">sarfrazahmed.jrt@gmail.com</a>
C-5	DR. BHAIRAB BORGHAIN	Effect of Variable Viscosity and Thermal Conductivity of Steady Laminar Flow in a Porous Medium of a Micropolar Fluid with Heat Transfer	<a href="mailto:borgohainbhairab1234@gmail.com">borgohainbhairab1234@gmail.com</a>

C-6	GOURAB KUMAR PANDA	Impact of slip on the entropy generation in Darcy-Forchhimer nanofluid past a curved stretching sheet	gkpandamathematics@gmail.com
C-7	SELVAKUMAR S	A Classical Retrieval Inventory System with Two Component Demand Rate	illoduselvakumar@gmail.com
C-8	SRICHARAN SHAH	The Log-Balakrishnan-Alpha-Beta-Skew-Normal Distribution and Its Applications	charan.shah90@gmail.com
C-9	MRINMOY GOUTOM BARUAH	A Review on Phase Change Material (PCM) for Solar Thermal Energy Storage	mgbofficial18@gmail.com
C-10	MR. KAMAL KUMAR PRADHAN	Electrification effect on flow and heat transfer of nanofluid over a stretching sheet.	kkpradhanmaths@gmail.com
C-11	Dr. KAMALESH PANDIT	Effect of heat and mass transfer and thermal radiation on a steady MHD convective flow over a porous stretching surface embedded in a porous media in presence of viscous dissipation and suction/injection.	<a href="mailto:kamalesh.pandit14@gmail.com">kamalesh.pandit14@gmail.com</a>

Day 1 (1 September 2020)			
<b>Technical Session – IV (Online Platform: GoToMeeting)</b> Chairperson: Prof. Tazid Ali Department of Mathematics Dibrugarh University, Dibrugarh, Assam, India			03:30 PM – 04:30 PM (India)
Paper ID	Name of the Participant	Title of the paper	Email Address
D-1	HIMANGSHU HAZARIKA	A Study of Primitive Normal Elements over Finite Fields in Cubic Form	diku_95@tezu.ernet.in
D-2	K. JAYALAKSHMI	Simple Binary $(-1, 1)$ Ring	kjay.maths@jntua.ac.in
D-3	MRS. SHYAMALI DUTTA.	Morbidity and disability among the elderly persons: an empirical investigation.	shyamalidutta4@rediffmail.com
D-4	DREMA LHAMU	Periodic Besov Space of the Continuous Wavelet Transform.	dremalhamu114@gmail.com
D-5	MANOJ KUMAR	A Hybrid Method To Solve Fractional Partial Differential Equations	mkmath14@gmail.com
D-6	PALLABI SAIKIA	A Comparison of Parametric Models for Graduation of Mortality of Districts of Assam	pallabisaikia.math@gmail.com
D-7	KABYASHREE PHUKAN	Carbon dot composed Nano-bioconjugate for drug delivery with high anti-oxidant activities.	kabyashreephukan06@gmail.com
D-8	MR. JERVIN ZEN LOBO	Lie Symmetries of Linear Second Order Differential Equations with the Most General Delay	zenlobo1990@gmail.com
D-9	BIRINCHI KUMAR BORUAH	Various Graphical Properties of Identity graph in Genetic Code Algebra	birinchikumar49@gmail.com
D-10	TENSUBAM ALEXANDER SINGH	Viscous fluid Cosmological model in Friedmann-Lemaitre-Robertson Walker Universe.	alxtensubam@gmail.com
D-11	ANINDITA SHARMA	Energy and Exergy Analysis of a Corrugated Plate Solar Air Heater	anindita0302@gmail.com
D-12	DAKJUM ESHI	Coupled coincidence and coupled common fixed point theorems on a complete metric space endowed with a graph	<a href="mailto:dakjum.eshi@rgu.ac.in">dakjum.eshi@rgu.ac.in</a>

Day 1 (1 September 2020)	
<b>Technical Session – V (Online Platform: GoToMeeting)</b> Chairperson: Prof. Gopal Hazarika Department of Mathematics, Dibrugarh University, Assam, India.	05:30–06:30 PM, India

Paper ID	Name of the Participant	Title of the paper	Email Address
E-1	ARUN KUMAR YADAV	Station-keeping error analysis for halo orbits around Libration Point L1 using linear control logic	arunkumardv367@gmail.com
E-2	VIJIL KUMAR	Transfer Trajectory design using Lambert Problem and Genetic Algorithm	vijilchoudhary@gmail.com
E-3	S. SAMPATHRAJ		sudarsampath007@gmail.com
E-4	TAME ACHI	Cosmic acceleration in f(R) model of gravity	tame.achi@rgu.ac.in
E-5	MAITRAYEE CHOWDHURY	A brief exposure into the number theoretic aspects of hypergraphs.	maitrayee3.1415@gmail.com
E-6	GOMATHI N	On almost generalized topological groups	gomathi198907@gmail.com
E-7	MRADULA	Efficient estimation of population mean under stratified random sampling using non linear cost function	mradulakrish@gmail.com
E-8	TRIDIV JYOTI NEOG	An application of similarity of fuzzy soft sets in recruitment problem	tridivjyoti@gmail.com
E-9	SAUGATA PURKAYASTHA	Effect of integral element on lifting nilpotent elements of a ring to a module	sau.pur@rediffmail.com
E-10	SEEMA KHANUM	Speech Corpus for Emotional Speaker Recognition	seem.kh@gmail.com
E-11	DR. MADAN MOHAN SINGH	On The Diophantine Equation $x^2 + 139^m = y^n$	mmsingh2004@gmail.com
E-12	DR. CHETANA GALI	On the general sum-connectivity indices of some transformation graphs	chetanagali19@gmail.com

Day 1 (1 September 2020)			
Technical Session – VI (Online Platform: ZOOM)			05:30–06:30 PM, India
Chairperson: Prof. Sahin Ahmed Department of Mathematics, Rajiv Gandhi University, Arunachal Pradesh, India.			
Paper ID	Name of the Participant	Title of the paper	Email Address
F-1	SHIVANI GOEL	Some results on generalized gcd and lcm functions	shivanig@iiitd.ac.in
F-2	PARTHAJIT BHOWAL	Solvable graph of a finite non-solvable group	bhowal.parthajit8@gmail.com
F-3	PRADIP DATTATRAYA PANSARE	Boundedness of pseudo-differential operator associated with the besse type operator	pdpansare@mitacsc.ac.in
F-4	DR. C. SIVASHANMUGARAJA	Fuzzy Pre*- $\gamma$ -Open and Fuzzy Pre*- $\gamma$ -Continuous Mappings in Fuzzy Topological Spaces	csrajamaths@yahoo.co.in
F-5	DR. RUPOK NEOG	A Mathematical Model of Lock Down for Controlling Pollution of the Environment	rupokneog@gmail.com
F-6	SATYAJIT GAYAN	On product of two theta functions and identities involving sums of squares and triangular numbers.	satyajitgayan1993@gmail.com
F-7	R. N. YADAV	Some application of differential equations to different fields	rajnaranyadav1961@gmail.com
F-8	S. YADAV	Gas compression engine	meshashiyadav08@gmail.com
F-9	HENA RANI BISWAS	Symbolic Dynamics for One dimensional Chaotic maps and its Applications	biswas.hena@yahoo.com
F-10	SILPI HAZARIKA	Mathematical Analysis of Porosity, Thermal Buoyancy and Radiation with emphasize on Variable Viscosity and Thermal Conductivity on a MHD Mass Transfer over a Moving Non-Isothermal Vertical Surface	silpi.hazarika@rgu.ac.in

F-11	SHAIK SHAFI		skshafi04@gmail.com
F-12	M.ABHILASHA	Factors affecting the use of ICT in Mathematics Teaching in Secondary Schools: A case Study of Thoubal District of Manipur	ddradiopress@gmail.com

Day 2 (2 September 2020)			
Technical Session – VII (Online Platform: GoToMeeting) Chairperson: Prof. Bhim Prasad Sharma Department of Mathematics, Tezpur University, Assam, India.			05:30–06:30 PM, India
Paper ID	Name of the Participant	Title of the paper	Email Address
G-1	RUPAM GOGOI	On different aspects of topological entropy: An observation	rupamgogoi1997@gmail.com
G-2	BHUBAN CHANDRA DEURI	On solutions of an integral equation	bhuban.as4u@gmail.com
G-3	ADITYA PEGU	First hyper zagreb index of subdivision graph and vertex -semi-total graph based on tensor product	adityapegu92@gmail.com
G-4	AKANKSHA SAMPAT SHINDE	New Subclass of Analytic functions With Negative Coefficients Defined by Differential operator	akankshashinde1202@gmail.com
G-5	CHANDRA BORAH	Group action in genetic code algebra	chandra92borah@gmail.com
G-6	PANKAJ KAKATI	The q-Rung Orthopair Fuzzy Hamacher Generalized Shapley Choquet integral Operator and its Application to Multiattribute Decision Making	pankaj05kakati@gmail.com
G-7	NEERAJ KUMAR PAUL	Some Aspects of Fibonacci Sequence	neeraj_dmj@yahoo.co.in
G-8	DR. BINDU KRISHNAN	A New Generalization of Weighted Weibull Distribution: Properties and Applications	bindusruthy@gmail.com
G-9	SANJIT MOHANTY	A Triangular mixed Quadrature for numerical Integration of Analytic Functions	<a href="mailto:dr.sanjitmohanty@rediffmail.com">dr.sanjitmohanty@rediffmail.com</a>
G-10	MS. PAWANJEET KAUR	Cyano-bridged Assemblies in Selective Bioinorganic Synthesis	pawanjeet514@gmail.com
G-11	SAIFUR RAHMAN AND APIL UDDIN AHMED	Deterministic Finite Automata over Semimodules	<a href="mailto:saifur.rahman@rgu.ac.in">saifur.rahman@rgu.ac.in</a>
G-12	MR. GHANWAT ARUN JAGANNATH	The New Kamal Transform: Properties and Applications	<a href="mailto:pushkar1967@rediffmail.com">pushkar1967@rediffmail.com</a>

Day 2 (2 September 2020)			
Technical Session – VIII (Parallel) (Online Platform: ZOOM) Chairperson: Prof. Shuvam Sen Department of Mathematics, Tezpur University, Assam, India.			05:30–06:30 PM, India
Paper ID	Name of the Participant	Title of the paper	Email Address
H-1	KM RITU	A Computational Method for Generalized SEIR Model of COVID-19	ritus8791@gmail.com
H-2	REENA CHAUDHARY	Theoretical Study of Angular Distribution of Cosmic Rays with Time of Flight Method	reenachaudhary2164@gmail.com
H-3	ANKUR SHARMAH	On different modes of ideal convergence of topological spaces	ankursarmah189@gmail.com
H-4	P. SRIVIDHYA	On nano regular b-open sets in nano topological spaces	psrividhya97@gmail.com
H-5	PHURAILATPAM DEVAKINANDAN SHARMA	Design of Precise Novel Clock Synchronization Algorithm and its Simulation	devakinandan.bu@gmail.com

H-6	MOHD VASIULLA	On a class of generalized recurrent manifolds	vsmk45@gmail.com
H-7	DR. BIJU KUMAR DUTTA	A Fixed Point Approach to the Stability of Nonlinear Caputo-Type Fractional Initial Value Problem	dutta.bk11@gmail.com
H-8	SEKHAR GHOSH	Symmetric mountain pass lemma and its application to a nonlocal PDE involving singularity	sekharghosh1234@gmail.com
H-9	TUSAR SINGH	A Comparative Study on Newton-Raphson Method and Halley Method for Solving Nonlinear Equations using Cubic Spline	singhtusar1993@gmail.com
H-10	L. MARY VASANTHI	Geodetic certified domination number of graph	maryvasanthi7@gmail.com
H-11	ARCHANA KUMARI PRASAD	Soft Mildly Normal Spaces	akkumariprasad@gmail.com
H-12	SRICHARAN SHAH	The Log-Balakrishnan-Alpha-Beta-Skew-Normal Distribution and Its Applications	charan.shah90@gmail.com
H-12	Seema Khanum	Speech Corpus for Emotional Speaker Recognition	

Day 3 (3 September 2020)			
Technical Session – IX (Parallel) (Online Platform: ZOOM)			10:20–11:20 PM, India 12:50–01:50 PM, Malaysia
Chairperson: Prof. Noor Fadiya Binti Mohd Noor Institute of Mathematical Sciences, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, W. Persekutuan Kuala Lumpur, Malaysia.			
Paper ID	Name of the Participant	Title of the paper	Email Address
J-1	GEETI GOGOI	Numerical study of Variable Viscosity and Thermal Conductivity on the MHD flow with a flat surface	geetigogoi94@gmail.com
J-2	DAMINI SINGH	CFD analysis of blood flow in human carotid artery bifurcation based on 3d-1d fem model.	damini.ds84@gmail.com
J-3	DIMBESWAR KALITA	Theoretical Investigation of Slip flow mixed convection chemically reacting fluid with heat source over a semi-infinite vertical porous surface.	kalita.dimbeswar1@gmail.com
J-4	KALYAN CHAMUAH	Heat transfer in convective MHD flow through porous medium with thermal radiation	kalyanchamuah60@gmail.com
J-5	PRITIKANTA PATRA	Numerical Integration of Analytic functions using a Hybrid Lobatto Quadrature in Adaptive Quadrature Routine	pritikanta@yahoo.com
J-6	LOVISH RAHEJA	Assessment of Economic Impact of Environmental Collapse	lovishraheja26@gmail.com
J-7	SUNIT KUMAR	A Generalization of Gini Simpson index under Fuzzy Environment	sunit.e8758@cumail.in
J-8	G. GOMATHI ESWARI	Applications of Random Matrix Theory	mathseswari@gmail.com
J-9	A.L. MERLIN SHEELA	The Connected Edge-to-Edge Geodetic Number of a Graph	sheelagodwin@gmail.com
J-10	PALASH KUMAR BORA	Permutation polynomial over finite fields	palash.01@gmail.com
J-11	Padma Bhushan Borah	A Mathematical Model Study of Covid-19 Pandemic with a Case Study of Assam	padmabhushan@gmail.com

Day 3 (3 September 2020)			
Technical Session – X (Online Platform: GoToMeeting)			10:20–11:20 PM, India
Chairperson: Prof. P. K. Kalita Department of Physics, Rajiv Gandhi University, Arunachal Pradesh, India.			
Paper ID	Name of the Participant	Title of the paper	Email Address
K-1	SANGITA DAS	Stochastic comparison of extreme order statistics having interdependent exponentiated-location scale distributed components	sangitadas118@gmail.com



K-2	DR. BHUMIKA PANIGRAHI	Five dimensional bulk viscous cosmological models	bhumika.phd@gmail.com
K-3	DR. SHRINATH D. MANJAREKAR	On two – dimensional Generalized Elzaki Tarig Transformations properties and convergence	shrimathematics@gmail.com
K-4	TOUSIFUR RAHMAN	Two Inflated Binomial Distribution and its Application	rahmantousifur2018@gmail.com
K-5	VISHAL AGRAWAL	A note on dimension preserving approximation of bivariate functions	vishal.agrawal1992@gmail.com
K-6	AGNIDIPTO BHATTACHARYA	Phase plane analysis of a non-canonical scalar field model	agnidipto17@rediffmail.com
K-7	JITENDRA GUPTA		jgupta.bbau@gmail.com
K-8	GOVINDA CHANDRA DAS	A study on role and attitude of elementary school teachers' in mathematics with special reference to balijana education block in goalpara district, assam	<a href="mailto:gcdas001@gmail.com">gcdas001@gmail.com</a>
K-9	ABDUL WADED	Development of Mathematics Teaching in Secondary Education in Assam, India: A Study on Pedagogical Practices	wahedabdul407@gmail.com
K-10	KRISHNA RAM SAIKIA	Certain Properties of Discrete Janardan distribution and Its Applications	krishnaramsaikia@gmail.com
K-11	SEEMA KHANUM	A Review on Emotional Speaker Recognition	seem.kh@gmail.com
K-12	DR. NIPEN SAIKIA	Level 13 Analogue of Rogers-Ramanujan Continued Fraction	<a href="mailto:nipen.saikia@rgu.ac.in">nipen.saikia@rgu.ac.in</a>
K-13	Om Prakash	Unsteady MHD Motion and Heat Transfer over an Extending / Shrinking Surface in a Hybrid Nanofluid with non-linear Thermal Radiation	Omsharma.sharma813@gmail.com
K-14	MOHD VASIULLA	On a class of generalized recurrent manifolds	vsmlk45@gmail.com

Day 3 (3 September 2020)			
Technical Session – XI (Online Platform: ZOOM) Chairperson: Prof. Taher Armaghani Shahrood University of Technology, School of Mechanical engineering, Shahrood, Iran.			12:15–01:15 PM, India
Paper ID	Name of the Participant	Title of the paper	Email Address
L-1	DR. RUPAM KR GOGOI	Separation of species of a binary fluid mixture in generalised couette flow in presence of strong magnetic field	rupamgogoi1973@gmail.com
L-2	KRISHNANDAN VERMA	Soret effect on MHD fluid flow over a rotating porous disk on Darcy-Forchheimer model	verma.kisu@gmail.com
L-3	J. NESA GOLDEN FLOWER	The Forcing Complement Connected Edge Monophonic Number Of a Graph	nesagoldenflower@gmail.com
L-4	DR. NAVA JYOTI HAZARIKA	Indirect Natural Convection for Transient Hydromagnetic Gas Flow along an Inclined Plane in a Porous Media: Laplace Technique	navahazarika12@gmail.com
L-7	SIKDAR MD SULTAN ASKARI	Fuzzy Logic Based Multilayer Biometric Security for e-Transactional Fraud Detection	sikdar.askari@rgu.ac.in
L-6	GETE UMBREY	Determining Affinity of Social Network using Graph of Semirings	gete.umbrey@rgu.ac.in
L-7	MOHABBAT ALI	On Weakly Pseudo- Projectively Symmetric Riemannian Manifolds	ali.math509@gmail.com
L-8	AMIT KUMAR RAHUL	The impact of surface roughness and porous wall on squeeze film lubrication between annular disks: Rabinowitsch fluid Model	<a href="mailto:akrahulism@gmail.com">akrahulism@gmail.com</a>
L-9	NIBEDITA DASH	Analytical model for reiner rivlin blood flow to study the effect of 'w' shape arterial stenosis	dashnibedita@yahoo.co.in
L-10	DEEPAKSHI SHARMA	On the Study of some neighbourhood Signed Graphs	deepakshi.sharma1990@gmail.com
L-11	Sayyed S. R.	MHD Stagnation Nanofluid Flow Over a Flat Plate in a Porous Medium	Srsayyed786@gmail.com



Day 3 (3 September 2020)			
Technical Session – XII (Online Platform: GoToMeeting)			12:15–01:15 PM, India
Chairperson: Prof. Tazid Ali Department of Mathematics, Dibrugarh University, Assam, India.			
Paper ID	Name of the Participant	Title of the paper	Email Address
M-1	ALAA A. A. ABDALLAH	Study On B- Covariant Derivative of Different Order for Some Tensors in Finsler Space	ala733.ala00@gmail.com
M-2	AKASMIKA PANDA	Existence of solutions for two mixed boundary value elliptic PDEs with irregular data	akasmika44@gmail.com
M-3	KESHAV KUMAR K	Mathematical Modelling -The need of the hour in view of Covid-19 Pandemic crisis	keshav.mphil@gmail.com
M-4	RINCHIN DREMA	Congruences for overpartition with restricted odd differences.	dremarinchin3@gmail.com
M-5	H. S. BOREGOWDA	Neighbors Degree Sum Energy of Graphs	bgsamarasa@gmail.com
M-6	BARNALI PATHAK	Estimation of lattice size and strain of mixed phase Lead Oxide using W.H technique	barnalipathak1@gmail.com
M-7	ARCHANA YADAV	A Common Fixed Point Theorem For Compatibility of Type(A) and Faintly Compatibility	archuyadav9@gmail.com
M-8	SUDARSHAN SANTRA	Numerical solution of a time fractional parabolic-elliptic problem involving weak singularity	sudsantra@gmail.com
M-9	ASHISH KUMAR KESARWARY	A Class of Simple Derivations of $K[x_1, x_2, \dots, x_n]$	ashishkumariitk@gmail.com
M-10	YOWA NANUG	Structural characterization of CdS, CdS/ZnS Core-shell nanocomposites	yowanang99@gmail.com
M-11	SONU RAM	On (m, n)-Paranormal Operators On Hilbert Spaces	ram.sonu02@gmail.com
M-12	BRAJESH KUMAR KULSHRESTHA		bkkul.ram@gmail.com
M-13	BARNALI BARMAN	A numerical study on the influence of the layer thickness on PbS based solar cell by SCAPS-1D	barman.barnali3@gmail.com

Day 3 (3 September 2020)			
Technical Session – XIII (Online Platform: ZOOM)			03:00–04:00 PM, India
Chairperson: Prof. Sahin Ahmed Department of Mathematics, Rajiv Gandhi University, Arunachal Pradesh, India.			
Paper ID	Name of the Participant	Title of the paper	Email Address
N-1	MANJU NATH	Note on bounds for the general sum-connectivity index of graph operations involving some composite graphs	manjugalijack@gmail.com
N-2	AASTHA MALHOTRA	Toeplitz composition operators on the hardy space	aasthamalhotra01@gmail.com
N-3	JYOTI ROY CHUDHURY	Phenomenology of Jogelker Window Function for Thin Film Memristor	jyotirc62@gmail.com
N-4	ADITI CHATURVEDI	Estimation Procedures for the Reliability Characteristics of Chen Distribution Based on Type II Censoring and the Sampling Scheme of Bartholomew	caditic@gmail.com
N-5	UDOY NARAYAN GOGOI	A Review on Applications of Mathematical Growth Models in Biological Sciences	npsc.ung@gmail.com
N-6	ARUN PAL	Optimal multivariate cluster sampling design in presence of labor cost.	arunkyashpal@gmail.com
N-7	NARAYAN NAYAK	Series for $1/\pi$ arising from Ramanujan's cubic singular moduli $x_n$ , for some non integral values of n	narayan.nayak05@gmail.com

N-8	RAMANDEEP KAUR	Screen Semi-Invariant Lightlike submanifolds of Golden semi- Riemannian Manifold	ramanulakh1966@gmail.com
N-9	DHARMARAJ DEKA	Transformation-free Compact High-order Navier-Stokes Equation Solver on Nonuniform Grid	dharma@tezu.ernet.in
N-10	PRANAB JYOTI PARASHAR	Convective MHD flow past an inclined plate embedded in a porous medium with ramped plate velocity, temperature and concentration	parasharpranabjyoti@gmail.com
N-11	DEBAKANTA BORGOHAIN	A study on the Rank and the Torsion Sub Group of Some Elliptic Curves	
N-12	ZAHOOOR AHMAD	Generalized version of size biased poisson-ailamujia distribution with application	zahoor151@gmail.com
N-13	DR. BHAIRAB BORGOHAIN	Effect of Variable Viscosity and Thermal Conductivity of Steady Laminar Flow in a Porous Medium of a Micropolar Fluid with Heat Transfer	borgohainbhairab1234@gmail.com
N-14	Dr. Nava Jyoti Hazarika		

Day 3 (3 September 2020)			
Technical Session – XIV (Online Platform: GoToMeeting) Chairperson: Prof. R. P. Sharma Department of Mathematics, NIT Arunachal Pradesh, India.			03:00–04:00 PM, India
Paper ID	Name of the Participant	Title of the paper	Email Address
P-1	VISHWAJEET SINGH	Regional Disparities Evaluation of Infrastructural Development in Uttar Pradesh: A Statistical View	id.vishwa@gmail.com
P-2	RESHMI KM	Transit Index of Subdivision Graphs	reshmikm@gmail.com
P-3	ANJANA CHETRY	The stability results on a class of fractional initial value problem via fixed point theory.	chetry1999anjana@gmail.com
P-4	PALAKSHI BORA	Existence of weak solutions for a class of fractional boundary value problem.	palakshi1524@gmail.com
P-5	Neeraj Joshi	Sequential Estimation of the Mean of an Inverse Gaussian Distribution with Known Coefficient of Variation	stats.joshi@gmail.com
P-6	HARJYOTI DAS	Modelling and Design of a Solar Thermal Energy Storage with Paraffin Wax as a Phase Change Material (PCM)	sdharjyotidas@gmail.com
P-7	SURYAKANTA BEHERA	On Use of Finite Element Method in Engineering Problems	suryakanta90@yahoo.com
P-8	SILPI HAZARIKA	Effect of Buoyancy Ratio Parameter and Chemical Reaction on MHD Natural Convective Nanofluid Flow over a Vertical Cone	silpi.hazarika@rgu.ac.in

P-9	DR. JITU SARMAH	Three dimensional free convective couette flow through a porous medium with constant heat flux	jitu444sarmah@gmail.com
P-10	DR. MANOJ BISWAKARMA	Exciting Force by an Oscillating Water Column in Presence of Channel of Finite Width	manoj784179@gmail.com
P-11	MAYZUL ALOM HUSSAIN	MHD oscillatory couette flow between two parallel porous plates through a porous medium with heat source	mayzuljun89@gmail.com
P-12	DR. ASHIM BORA	Prediction of School Student's Scholastic Success in Mathematics: Artificial Neural Networks Approach	<a href="mailto:ashim.bora@rgu.ac.in">ashim.bora@rgu.ac.in</a>

### 3.5: Valedictory Session

Finally, a valedictory function was conducted in the department of Mathematics, Rajiv Gandhi University, where best presenter certificates of every Technical Sessions were presented and the certificates were distributed among the participants via online. Prof Taher Armaghani of Shashrood University, Iran, Prof PK Kalita, Dean of Faculty of Basic Sciences, RGU, Prof. Tazid Ali, Dr. Shuvan Sen, Tezpur University, Convener Prof. Sahin Ahmed and Organizing Coordinator Mr. Bhaskar Jyoti Chutia, were the resource persons of the valedictory function.

## Part – IV Outcome of the Program

### 4.1: Academic Outcome

The Conference had a high standard of presentations and there was significant interest from participants to be involved in the invention of the best output of their research work. Each Speaker discussed various recent developments and Delivered Talk with the aim of making improvements in the respective research areas. All the outcomes and memories of this Conference are to be found inside a beautiful **Souvenir**. This Souvenir includes a wide variety of Abstracts from almost all the branches of Mathematics. However many of the Abstracts are come from various branches of Science and Technology, and highlights its developments and importance.

### 4.2: Policy Implications / Technical Implications (if any) – No.

### 4.3: Future Scope


The conference is also expected to enhance collaborations and exchange of research ideas among researchers across different universities and countries in future.

## Part – V Annexure

### 5.1: Brochure

**About Rajiv Gandhi University**  
Rajiv Gandhi University, the oldest university of Arunachal Pradesh was established in 1984, and grow into a Central University under MHRD, Govt. of India since 9 April, 2007.

**About the Department of Mathematics**  
The department of Mathematics is an important constituent of the Faculty of Basic Sciences since 2005, the year when it was established. The Department offers M. Sc., M. Phil. and Ph. D. with various topics. For more details you may visit [www.rgu.ac.in](http://www.rgu.ac.in)



The Covid-19 pandemic has overwhelmed the entire globe along with India. It has expressively disrupted the higher education sector as well, which is a critical determinant of a country's economic and educational future. To ensure the continuity of learning, the digital mode is the only option for us. So, we try to organize this type of e-learning program.

*Stay safe, eat healthy and stay healthy....*

**Objectives**  
ICAMST - 2020 is intended to provide a common platform for researchers, scientists, engineers and other interested professionals to present their latest findings, ideas, developments and applications covering aspects of the History and Development of Mathematical Sciences with their latest Applications. This Conference is the premium forum for the presentation of new advances, research results and to discuss the future trends in the fields of Mathematics along with Science and Technology. We cordially invite prospective authors to submit unpublished research papers with novel contributions to ICAMST2020.


**Important Dates**  
Registration starts on: 2<sup>nd</sup> August, 2020  
Registration closes on: 26<sup>th</sup> August, 2020  
e-Abstract closes on: 26<sup>th</sup> August, 2020  
Notification of Acceptance: 28<sup>th</sup> August, 2020

**Registration details**  
Participants make their payments by depositing the registration fee online in

Account No. 83420100002094  
IFSC Code: BARBOVJAARUN  
Name of Recipient: HoD, Mathematics, RGU, Bank of Baroda, Arunachal University, Rono Hills, Arunachal Pradesh, India.


Research Scholars: Rs. 500.00  
Faculties/Scientists Rs. 1000.00  
(USD 20 for outside INDIA)

Send a copy of e-receipt of the payment via email  
[icamst2020.rgumath@gmail.com](mailto:icamst2020.rgumath@gmail.com)



**INTERNATIONAL CONFERENCE ON ADVANCES IN MATHEMATICS, SCIENCE AND TECHNOLOGY (ICAMST-2020)**

**September 1-3, 2020**



Department of Mathematics  
Rajiv Gandhi University  
(A Central University)  
Rono Hills, Itanagar- 791112,  
Arunachal Pradesh, India

The participants are requested to register through the link  
<https://forms.gle/wnohZUXDsmkXXCY7>

**Topics for Presentation**

The interested Authors are requested to prepare Abstract for presentation with maximum 300 words with a relevant Title and Authors Affiliations in the following domain of Research (not limited):

- Pure and Applied Mathematics branches
- Nano-Technology/Bio-Fluid/Bio-Mathematics
- Mathematics in Social Sciences
- Theoretical Physics, Allied Sciences
- Mathematical Statistics/Mathematical Modelling/Game Theory
- Applications of Science and Technology.

The interested participants may submit their full length papers for consideration in UGC-CARE list Journal.  
Authors should send the Abstract via email [icamst2020.rgumath@gmail.com](mailto:icamst2020.rgumath@gmail.com)

Note: Abstract must be prepared in the format provided here:  
Font: Times New Roman, Font size: 12, Alignment: justified, Paper size: A4, keywords: 5-6, AMS Subject Classification.

All the sessions will be in *online mode*.  
Details will be provided to all the delegates via  
**WhatsApp link**  
<https://chat.whatsapp.com/IA4SKUA2eJR6K0bjvU2w6E>  
email:  
[icamst2020.rgumath@gmail.com](mailto:icamst2020.rgumath@gmail.com)  
Contact Person:  
Prof. Sahin Ahmed, Convener  
email: [sahin.ahmed@rgu.ac.in](mailto:sahin.ahmed@rgu.ac.in)  
Mobile: 7085759135

**Organizing Committee**

Chief Patron: Prof. Saket Kushwaha, Vice Chancellor, RGU

Patron: Prof. Amitava Mitra, Pro-Vice Chancellor, RGU

Patron: Prof. Tomo Riba, Registrar i/c, RGU

Patron: Prof. Pradip Kumar Kalita, Dean faculty of Basic Sciences, IT & Engineering, RGU

Convener: Prof. Sahin Ahmed, Head, Department of Mathematics, RGU

Coordinator: Mr. Bhaskar Jyoti Chutia, Department of Computer Science & Engineering, RGU

**Scientific Committee**

Prof. Joaquin Zuero  
Universidad Politécnica de Cartagena, 30202, Cartagena (Murcia), Spain.

Prof. M. M. Rashidi  
ENN-Tongji Clean Energy Institute of Advanced Studies, Tongji University  
Shanghai Automotive Wind Tunnel Center, Tongji University, Shanghai

Prof. Ali J. Chamkha  
Institute of Research and Development, Duy Tan University, Da Nang 550000, Vietnam. Institute of Theoretical and Applied Research (ITAR), Duy Tan University, Hanoi 100000, Vietnam.

Prof. Taher Armaghani  
Shahrood University of Technology, School of Mechanical Engineering, Shahrood, Iran.

Prof. S.N. Bora  
Department of Mathematics, IIT Guwahati, Assam, India.

Prof. K. Vajravelu  
Department of Mathematics, University of Central Florida, Orlando, FL 32816, USA.

Prof. Neela Nataraj  
Department of Mathematics, IIT Bombay, India

Prof. G. C Hazarika  
Chair Person, CCSA, Dibrugarh University, Assam, India

**Organizing Department, Mathematics, RGU**

Prof. Sahin Ahmed  
Dr. Nipen Saikia  
Dr. Saifur Rahman  
Mrs. Dakjurn Eshi



## 5.2: List of Participants (Institution wise / gender-wise)

Name	Title	Affiliation	Email
Dr. Bindu Krishnan	A new generalization of weighted Weibull Distribution: Properties and Applications	Jain University, Kochi, Kerala	<a href="mailto:bindusruthy@gmail.com">bindusruthy@gmail.com</a>
BIRINCHI KUMAR BORUAH	Various Graphical Properties of Identity graph in Genetic Code Algebra	DIBRUGARH UNIVERSITY, DIBRUGARH, ASSAM	<a href="mailto:birinchikumar49@gmail.com">birinchikumar49@gmail.com</a>
Jyoti Prasad Roy Choudhury	Phenomenology of Jogelker Window Function for Thin Film Memristor	Assam Don Bosco University, Tepesia, Sonapur, Assam	<a href="mailto:jyotirc62@gmail.com">jyotirc62@gmail.com</a>



Mr. Manjunatha Gali	"Note on bounds for the general sum-connectivity index of graph operations involving some composite graphs"	Shri Gavisiddeshwar Arts Science and Commerce College, Koppal	manjugalijack@gmail.com
Debasish Gorai	No Paper	NIT, Arunachal Pradesh	debasishgorai280@gmail.com
Dharmalingam M	NIL	NIT Pudhucherry Karaikal 609609 India	mdharmaphd@gmail.com
Sonu Ram	(m,n)-paranormal Operators on Hilbert Spaces	Department of Mathematics, University of Delhi, Delhi-110007	ram.sonu02@gmail.com
Ankur Sharmah	On different modes of ideal convergence in topological spaces	Tezpur University	ankursarmah189@gmail.com
Neeraj Joshi	Sequential Estimation of the Mean of an Inverse Gaussian Distribution with Known Coefficient of Variation	Department of Statistics, University of Delhi, Delhi-110007, India	stats.joshi@gmail.com
MAYZUL ALOM HUSSAIN	MHD OSCILLATORY COUETTE FLOW BETWEEN TWO PARALLEL POROUS PLATES THROUGH A POROUS MEDIUM WITH HEAT SOURCE	RAJIV GANDHI UNIVERSITY, RONO HILLS, ARUNACHAL PRADESH, 791112	mayzuljun89@gmail.com
Dr. Chetana Gali	On the general sum-connectivity indices of some transformation graphs	Davangere University, Shivagangothri, Davangere	chetanagali19@gmail.com
Barnali Barman	A numerical study on the influence of layer thickness on PbS based solar cell by SCAPS-1D	Rajiv Gandhi University, Arunachal Pradesh-791112	barman.barnali3@gmail.com
ANJANA CHETRY	The stability results on a class of fractional initial value problem via fixed point theory.	The Assam Kaziranga University, Jorhat, Assam.	chetry1999anjana@gmail.com
A. L. Merlin Sheela	The Connected Edge-to-Edge Geodetic Number of a Graph	Stella Mary's College of Engineering, Aruthenganvilai	sheelagodwin@gmail.com
Bikash koli Saha	Hydromagnetic and Slip Impact on Heat Transport for Elastic-Viscous Fluid Flow Past a Flat Moving Plate	The Assam Royal Global University, Guwahati	bikashkoli100@gmail.com
Shivani Goel	Some results on generalized gcd and lcm sums	Indraprastha Institute of Information Technology, Delhi	shivanig@iiitd.ac.in
Archana yadav	A Common Fixed Point Theorem for Compatibility of Type (A) and Faintly Compatibility	Barkatullah university bhopal	archuyadav9@gmail.com
Ms. Pawanjeet Kaur	Cyano-bridged Assemblies in Selective Bioinorganic Synthesis	Gd Goenka University, Gurugram	pawanjeet514@gmail.com
Barnali Pathak	Estimation of lattice size and strain of mixed phase Lead Oxide using W.H technique.	Assam Don Bosco University, Tapesia, Assam	barnalipathak1@gmail.com
Aditi Chaturvedi	Estimation Procedures for the Reliability Characteristics of Chen Distribution Based on Type II Censoring and the Sampling Scheme of Bartholomew	Babasaheb Bhimrao Ambedkar University, Lucknow	caditic@gmail.com
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ANINDITA SHARMA	Energy and Exergy Analysis of a Corrugated Plate Solar Air Heater	Tezpur University, Napaam, Sonitpur-784028	anindita0302@gmail.com
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Reshmi KM	Transit Index of subdivision graphs.	Asst Professor of Mathematics, Govt Engineering College, Kozhikode, Kerala	reshmikm@gmail.com
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Dr. T. R. Ramesh Rao	Computational method for solving nonlinear Chemistry problem	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai - 48	rameshrao@crescent.education
Dr. Narayan Nayak	Series for $1/\pi$ arising from Ramanujan's cubic singular moduli $x_n$ , for some non integral values of $n$	The Assam Royal Global University, Guwahati, Assam	narayan.nayak05@gmail.com
Patel Jvalantkumar Kanaiyalal	SURVEY ON TEXTILE QUALITY CONTROL USING IMAGE PROCESSING	Shri Manilal Kadakia College Of Commerce, Management, Science And Computer Studies Ankleshwar	jvalant007@gmail.com
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HIMANGSHU HAZARIKA	A Study of Primitive Normal Elements over Finite Fields in Cubic Form	Tezpur University, Napaam, Tezpur, Sonitpur, Assam	diku_95@tezu.ernet.in
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Dr. Kamalesh Kumar Pandit	Effect of heat and mass transfer and thermal radiation on a steady MHD convective flow over a porous stretching surface embedded in a porous media in presence of viscous dissipation and suction/injection.	Jorhat Institute of Science and Technology, Jorhat, Assam	kamalesh.pandit14@gmail.com
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Aditya Pegu	First Hyper Zagreb Index Of Subdivision Graph And Vertex-Semi-Total Graph Based On Tensor Product	Dibrugarh University, Dibrugarh, Assam-786004	adityapegu92@gmail.com
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Dr. Bhairab Borgohain	EFFECT OF VARIABLE VISCOSITY AND THERMAL CONDUCTIVITY OF STEADY LAMINAR FLOW IN A POROUS MEDIUM OF A MICROPOLAR FLUID WITH HEAT TRANSFER	Department of mathematics, Tinsukia College, Assam	borgohainbhairab1234@gmail.com
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Padma Bhushan Borah	A Mathematical Model Study of Covid-19 Pandemic With A Case Study of Assam	Department of Mathematics, Gauhati University, Guwahati-781014	padmabhushanborah@gmail.com
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Silpi Hazarika	Effect of Buoyancy Ratio Parameter and Chemical Reaction on MHD Natural Convective Nanofluid Flow over a Vertical Cone	Rajiv Gandhi University, Arunachal Pradesh, India	<a href="mailto:silpi.hazarika@rgu.ac.in">silpi.hazarika@rgu.ac.in</a>
Geeti Gogoi	Numerical study of Variable Viscosity and Thermal Conductivity on the MHD flow with a flat surface	Research Scholar, Dibrugarh University	geetigogoi94@gmail.com
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Hena Rani Biswas	Symbolic Dynamics for One dimensional Chaotic maps and its Applications	Assistant Professor, Department of Mathematics, University of Barishal, Barishal-8200, Bangladesh.	biswas.hena@yahoo.com
Pankaj Kakati	The q-Rung Orthopair Fuzzy Hamacher Generalized Shapley Choquet Integral Operator and its Application to Multiattribute Decision Making	Department of Mathematics, Jagannath Barooah College, Jorhat, Assam:785001, India	pankaj05kakati@gmail.com
Jitendra	Numerical solution of moving boundary problem in presence of moving phase change material	DEPARTMENT OF MATHEMATICS, INSTITUTE OF SCIENCE, BANARAS HINDU UNIVERSITY	jgupta.bbau@gail.com
Saugata Purkayastha	On the effect of integral elements on lifting nilpotent elements of a ring to a module	Assam Don Bosco University, Tapesia Gardens, Sonapur, Tapesia, Assam- 782402	saugata.purkayastha@dbuniversity.ac.in
Dr. Shrinath Dilip Manjarekar	On two – dimensional Generalized Elzaki Tarig Transformations properties and convergence	LVH Arts, Science and Commerce College, Nashik - 03	shrimathematics@gmail.com
Mohabbat Ali	On Weakly Pseudo-Projectively Symmetric Riemannian Manifolds	Jamia Millia Islamia ( A Central University), New Delhi	ali.math509@gmail.com

## List of Attendee

Name	Title	Affiliation
<b>Upendra Kumar Mandal</b>	Some Application Of Differential Equations To Different Fields.	MMAM Campus, Tribhuvan University, Biratnagar, Nepal. Email: upendramandal678@gmail.com
<b>Bed Prasad Regmi</b>	Som Application Of Differential Equations To Different Filled.	Department Of Mathematics, Mahakavi Devkota Campus, Sunval, Nepal. Email: birendraregmi68@gmail.com

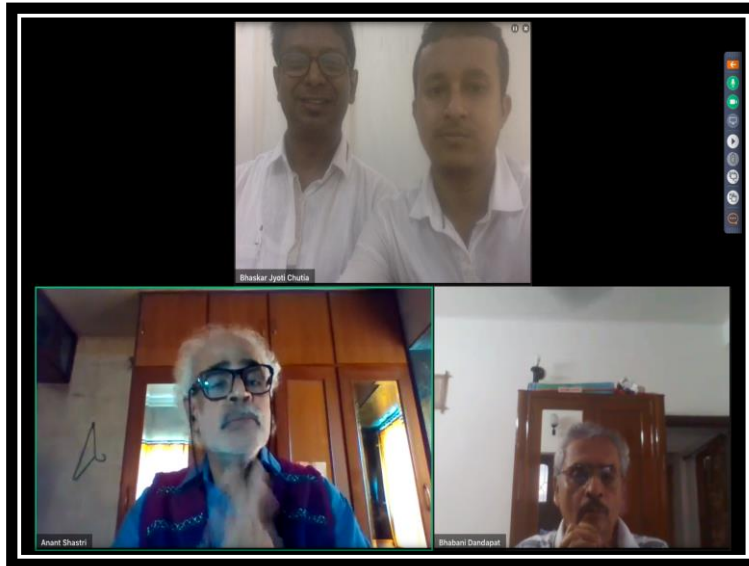


<b>Rabina Chaudhary</b>	Gas Compression Engine.	MMAM Campus, Tribhuvan University Biratnagar, Nepal. Email: chaudharyrubina12345@gmail.com
<b>Kongkona Tamuly</b>	Centre Manifold Theorem And Hopf Burification In A Nonlinear Differential Equation.	M. Sc. Student, Department of Mathematical Sciences, Tezpur University, Tezpur, Assam, India. Email: tkongkona@gmail.com
<b>Darshana Devi</b>	On the Existence of Solution to a Semi-linear Functional Differential Equation	Department of Mathematical Sciences, Tezpur University, Tezpur, Assam, India. Email: darsana.mou@gmail.com
<b>Debasish Gorai</b>	Attended	NIT Arunachal, Papumpare, Arunachal Pradesh, India. Email: debasishgorai280@gmail.com
<b>Shaik Shafi</b>	Attended	NIT Arunachal, Papumpare, Arunachal Pradesh, India. Email: skshafi04@gmail.com
<b>Dharmalingam M</b>	Attended	NIT Pudhucherry, karaikal, India. Email: mdharmaphd@gmail.com
<b>S. Sampathraj</b>	Attended	Loyola College, Chennai, India. Email: sudarsampath007@gmail.com
<b>Agnidipto Bhattacharya</b>	Attended	Ramakrishna Mission Vivekananda Centenary College, India. Email: agnidipto17@rediffmail.com
<b>Brajesh Kumar Kulshrestha</b>		Govt. College Dholpur, Rajasthan, India. Email: bkkul.ram@gmail.com

### 5.3: Photographs



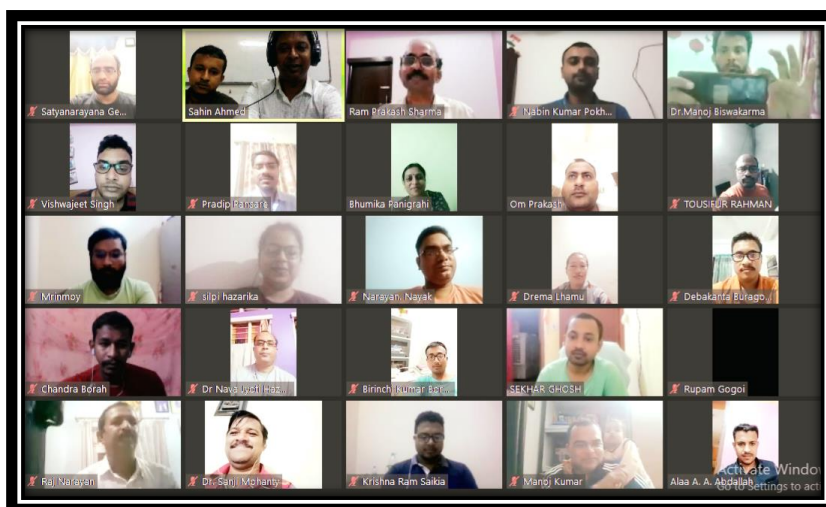
Pic – 1 : During Presentation of Chief Guest, Padma Shree Prof. Dinesh Singh on 1<sup>st</sup> September, 2020.



Pic – 2 : During Presentation of Prof. Anant R. Shastri, IIT Bombay on 2<sup>nd</sup> September, 2020.



Pic – 3 : During Presentation of Dr. Mehdi Eslami, Iran.



Pic – 4 : During Valedictory Function.

## 5.4: Media Coverage

# THE DAWN LIT POST

RISE WITH THE POST | SINCE 1998

### Three-day ICAMST-2020 concludes

RONO HILLS, Sep 3: The three-day online 'International Conference on Advances in Mathematics, Science and Technology', (ICAMST-2020), which was going on at the Rajiv Gandhi University (RGU) here, since September 1, concluded today. The event was organized by the department of Mathematics, RGU with its HoD Prof Sahin Ahmed as conference convener. It aimed to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on various aspects of Mathematics, Science and Technology. It also provides an interdisciplinary platform to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Mathematics and allied sciences. Altogether 165 participants attended all the 14 technical sessions, which were addressed by 15 renowned invited mathematicians from various parts of India, Iran, Bangladesh, Malaysia and Nepal.



International Conference On Advances In Maths , Science & Technology Concludes At RGU  
[September 4, 2020](#)  
[east turn](#)

Itanagar, Sept 4: The three-day online international conference on advances in mathematics, science and technology, (ICAMST) concluded at Rajiv Gandhi University (RGU) on Thursday. Altogether 165 participants from India, Iran, Bangladesh, Malaysia and Pakistan attended all the 14 technical sessions, which were addressed by 15 renowned invitees during the three-day conference organized by RGU's mathematics department. Prof Taher Armaghani of Shashrood University, Iran, RGU Basic Sciences Faculty Dean Prof PK Kalita, and RGU Maths HoD Prof Sahin Ahmed were the resource persons of the valedictory function. Earlier, on September 1, RGU Vice Chancellor, Prof Saket Kushwaha in his inaugural address said that the conference on mathematics, science and technology would be beneficial to Arunachal "where mathematics achievement is very poor." Former VC of the University of Delhi, Dinesh Singh in his keynote address highlighted the importance of international conferences, particularly during the Covid-19 pandemic.

## The Arunachal Pioneer

Mathematics webinar concludes

TAP | Updated: September 3, 2020

**RONO HILLS, Sep 03:** The three-day online international conference on 'Advances in Mathematics, Science and Technology' (ICAMST-2020) concluded at Rajiv Gandhi University here on Thursday. The conference was organised by RGU's Department of Mathematics with HoD Sahin Ahmed as the convener. It aimed at bringing together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on various aspects of mathematics, science and technology. It also provides an interdisciplinary platform to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of mathematics and allied sciences. The valedictory session of the international conference was graced by Taher Armaghani of Shashrood University, Iran, Dean of RGU's Faculty of Basic Sciences, P.K. Kalita, and Ahmed. The organising coordinator, Bhaskar Jyoti Chutia extended the vote of thanks to the dignitaries and participants. Leading mathematicians from India, Iran, Bangladesh, Malaysia and Nepal attended the Conference. Altogether, 165 participants attended all the 14 technical sessions, which were addressed by 15 renowned invited speakers from different parts of the world.

The international conference was inaugurated by the RGU Vice Chancellor Saket Kushwaha. Former VC of University of Delhi Dinesh Singh was the chief guest and Satyajit Roy of the Department of Mathematics, IIT-Madras as the guest of honour.

Ahmed said that abstracts from various departments other than mathematics and branches of allied sciences were received for the conference.

In the chairman's address, Kushwaha said conferences on mathematics, science and technology would be beneficial to Arunachal Pradesh where mathematical achievement is very poor.

Chief guest Singh gave the keynote deliberation and underlined why the conference was necessary during the Covid-19 pandemic.



#### RGU'S ONLINE ICAMST-2020 CONCLUDES

3rd Sep 2020 11:09: PM State

RONO HILLS, Sep 3: The three-day online International Conference on Advances in Mathematics, Science and Technology (ICAMST-2020) which commenced here at the Rajiv Gandhi University on September 1, concluded on Thursday. The conference which aimed to bring together leading academic scientists, researchers and scholars for exchanging experiences and research results on various aspects of Mathematics, Science and Technology was organized by RGU's Department of Mathematics with HoD Professor Sahin Ahmed as the convener. VC Professor Saket Kushwaha inaugurated the conference in virtual presence of Padmashree Professor Dinesh Singh, the former University of Delhi VC as Chief Guest and Professor Satyajit Roy of the Department of Mathematics, IIT Madras as Guest of Honour. With 14 technical sessions, it provided an interdisciplinary platform to discuss the recent innovations, trends, challenges and solutions adopted in the fields of Mathematics and allied sciences.

Renowned mathematicians from India, Iran, Bangladesh, Malaysia and Nepal attended with a total participation of 165. RGU PR.

## The Arunachal Times



ICAMST concludes at RGU

September 4, 2020

**RONO HILLS, Sep 3:** The three-day online international conference on advances in mathematics, science and technology, (ICAMST) concluded at Rajiv Gandhi University (RGU) here on Thursday.

Altogether 165 participants from India, Iran, Bangladesh, Malaysia and Pakistan attended all the 14 technical sessions, which were addressed by 15 renowned invitees during the three-day conference organized by RGU's mathematics department.

Prof Taher Armaghani of Shashrood University, Iran, RGU Basic Sciences Faculty Dean Prof PK Kalita, and RGU Maths HoD Prof Sahin Ahmed were the resource persons of the valedictory function.

Earlier, on 1 September, RGU Vice Chancellor, Prof Saket Kushwaha in his inaugural address said that the conference on mathematics, science and technology would be beneficial to Arunachal "where mathematics achievement is very poor."

Former VC of the University of Delhi, Dinesh Singh in his keynote address highlighted the importance of international conferences, particularly during the Covid-19 pandemic.

Prof Sahin Ahmed also spoke in the inaugural session of the conference.