ICGEM 2026

International Conference on Global Trends in Mathematics and Ethno-Mathematics

Pure and Applied Perspectives

Department of Mathematics | Dibrugarh University

Breakfast

7:30 AM – 9:00 AM

Thursday 19 November 2026

Venue: Department of Mathematics, Dibrugarh University

ICGEM 2026

International Conference on Global Trends in Mathematics and Ethno-Mathematics

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Registration

8:00 AM – 9:15 AM

Thursday 19 November 2026

Venue: Rangghar Auditorium

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International Conference on Global Trends in Mathematics and Ethno-Mathematics

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Department of Mathematics | Dibrugarh University

Day 1 Morning Programme

Thursday 19 November 2026

Venue: Rangghar

Session Coordinator: Prof. Tazid Ali, Dibrugarh University, India

Time	Programme
9:45 AM – 10:45 AM	Inaugural Session
10:45 AM – 10:50 AM	Group Photo
10:50 AM – 11:15 AM	High Tea
11:15 AM – 12:00 PM	Keynote Address Speaker: **Prof. K. Ramasubramanian** Centre for Traditional Indian Knowledge and Skills (CTIKS), Indian Institute of Technology Bombay., India Title: *Calculus inlaid in prose and poetry*
12:00 PM – 12:45 PM	Plenary Talk I Speaker: **Prof. Kallol Paul** Vice-chancellor, University of Kalyani, India Title: *Birkhoff-James Orthogonality and Linear Isometries on Banach Spaces*
12:45 PM–2:00 PM	Lunch Venue: Department of Mathematics, Dibrugarh University

Technical Session Rooms

Room	Description
MATH-C	Mathematics Conference Hall (Ground Floor)
MATH-S	Mathematics Seminar Room (First Floor)
MATH-R1	Mathematics Class Room No. 1 (Ground Floor)
STAT-C	Statistics Conference Hall (Ground Floor)
STAT-S	Statistics Seminar Hall (Second Floor)
CCSA	CCSA(Centre for Computer Science and Applications) Class Room No. 201 (First Floor)
IMCH	Indira Miri Conference Hall (First Floor)

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Standard Operating Procedure for Contributory Talks

1. Each contributory talk is allotted 12 minutes: 10 minutes for the presentation followed by 2 minutes for questions and discussion.

2. Presenters must report to the allotted session room at least 15 minutes before the scheduled start of their session.

3. Online participants must join in advance and remain ready throughout their allotted session.

4. Participants are kindly requested to follow the allotted schedule, as rescheduling of contributory talks will not be possible.

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Parallel Session MATH-C

Thursday 19 November 2026

Venue	Mathematics Conference Hall

Session Coordinator: Prof. Tazid Ali, Dibrugarh University, India

Technical Coordinator: Mr. Hilloljyoti Mahanta (8638121378) & Mr. Forid Ahmed (6003374244)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Anupam Saikia** Title: *A study of congruent numbers using class number*

Chairperson	**Prof. Anupam Saikia, Indian Institute of Technology Guwahati, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0196	Author: Anup Das Title: On a class of Lebesgue-Ramanujan-Nagell type equations with two prime powers	OFFLINE
		ICGEM-2026-0220	Author: Zakir Ahmed Title: New congruences for overpartitions with restricted odd differences	OFFLINE
		ICGEM-2026-3183	Author: Austin Dekart Taid Title: Ideal-theoretic and torsor structure of generalized pythagorean triples	OFFLINE
		ICGEM-2026-8803	Author: Bijit Bora Title: On some algebraic structures and homomorphism theory of multirings	OFFLINE
3:30–3:45 PM	Tea Break			

Time	Presentation	
3:45–4:15 PM	**Invited Talk**	Speaker: **Naba Kanta Sarma** Title: *Odd Zumkeller Numbers with Three Distinct Prime Factors*

Chairperson	**Dr. Naba Kanta Sarma, Assam University, India**

Time	Presentation	Paper ID	Author and Paper Title	Mode
4:15–5:15 PM	**Contributory Talks**	ICGEM-2026-0191	Author: Hilloljyoti Mahanta Title: Multi subgroups and level subgroups	OFFLINE
		ICGEM-2026-7326	Author: Austin Dekart Taid Title: Primitive Pythagorean triples in Gaussian Integers with even hypotenuse	OFFLINE
		ICGEM-2026-7574	Author: Shaswati Doloi Title: Graded Nil S-Primary Ideals	OFFLINE
		ICGEM-2026-6551	Author: Bidushi Sharma Title: Primitive values of rational functions at primitive elements of a finite field avoiding affine hyperplanes	OFFLINE
		ICGEM-2026-9632	Author: Mohammad Salahuddin Khan Title: A note on generalized derivations in prime rings with involution	OFFLINE

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Parallel Session MATH-S

Thursday 19 November 2026

Venue	Mathematics Seminar Room

Session Coordinator: Dr. Nisha Gohain, Dibrugarh University, India

Technical Coordinator: Mr. Diganta Bhattarai (9101179210) & Mr. Palashk Jyoti Gogoi (9365253484)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Bhupen Deka** Title: *Weak Galerkin Finite Element Methods for Maxwell's Equations with Discontinuous Coefficients*

Chairperson	**Prof. Bhupen Deka, Indian Institute of Technology Guwahati, Assam, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0112	Author: Monuj Gogoi Title: Existence of Solutions for Hybrid Differential Equations with Mixed Perturbations of Second Type and Deviated Arguments	OFFLINE
		ICGEM-2026-0228	Author: Tridisha Neog Title: Stability and Optimal Error Analysis of a Modified Weak Galerkin Method for Acoustic Wave Equations with Generalized Newmark Time Integration	OFFLINE
		ICGEM-2026-3202	Author: Suman Kumar Title: Controllability of Benjamin-Bona-Mahony Equation with Nonlinear State-Dependent Delay	OFFLINE
		ICGEM-2026-0215	Author: Nandita Saikia Title: A Semi-Discrete Finite Element Analysis for Chaplain-Lolas Cancer Invasion Model	OFFLINE

		ICGEM-2026-0227	Author: Diganta Bhattarai Title: Stability and Convergence Analysis of Modified Weak Galerkin Methods for Semilinear Klein-Gordon Equations	OFFLINE
3:30–3:45 PM	Tea Break			

Session Coordinator: Dr. Nisha Gohain, Dibrugarh University, India

Technical Coordinator: Mr. Diganta Bhattarai (9101179210) & Mr. Palashk Jyoti Gogoi (9365253484)

Time	Presentation	
3:45–4:15 PM	**Invited Talk**	Speaker: **Surajit Borkotokey** Title: *Cooperative games with a priori links*

Chairperson	**Prof. Surajit Borkotokey, Dibrugarh University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:15–5:30 PM	**Contributory Talks**	ICGEM-2026-0190	Author: Prem Prakash Mishra Title: Stackelberg Differential Game with Time Delays in a Two Echelon Supply Chain and Its Stability Analysis	OFFLINE
		ICGEM-2026-0209	Author: Samiran Mondal Title: A Generalized Time-Dependent Deteriorating Inventory Model with Rented Warehouse and Trade Credit Financing	OFFLINE
		ICGEM-2026-0178	Author: Elen Borang Title: An Axiomatization of the Equal Link Surplus Division Value for Network Games	OFFLINE
		ICGEM-2026-2473	Author: Animesh Phukan Title: Dynamic of a keen macroeconomic model with financial stress	OFFLINE
		ICGEM-2026-9273	Author: Babangida Bature Title: An EOQ Model for Non-instantaneous Deteriorating Items under Three-phase Demand, linear holding cost and Two-Level Trade credit Payment	OFFLINE
		ICGEM-2026-0148	Author: Bismita Dutta Title: An Analysis of Inventory Policies in a Price-Sensitive Demand Market with Deteriorated Products	OFFLINE

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Parallel Session MATH-R1

Thursday 19 November 2026

Venue	**Mathematics Class Room No. 1 (Ground Floor)**

Session Coordinator: Dr. Nomi Baruah, Dibrugarh University, India

Technical Coordinator: Mr. Chintu Saikia (8134807609) & Ms. Erashikha Devi (8133842875)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Anita Pal** Title: *Graph-Theoretic Optimization Approaches to Ecological Challenges*

Chairperson	**Dr. Anita Pal, National Institute of Technology Durgapur, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0808	Author: Ankita Dutta Title: On the Degree Ratio Sombor Index of Some Graph Operations	OFFLINE
		ICGEM-2026-2909	Author: Chaitra V Title: Characterization of graphs using degree polynomial	OFFLINE
		ICGEM-2026-3342	Author: Monjit Chamua Title: A Quantitative Study of Octane Isomers: Multilinear Regression Models for Physicochemical Property Prediction	OFFLINE
		ICGEM-2026-0224	Author: Bhaskarjyoti Gogoi Title: Survey on Degree-Based Topological Indices in QSPR	OFFLINE
		ICGEM-2026-6716	Author: Shristilina Bhuyan Title: An IF-DST multi-criteria decision-making framework for crime suspect ranking	OFFLINE
3:30–3:45 PM	Tea Break			

Chairperson	Dr. Anita Pal, National Institute of Technology Durgapur, India			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–4:15 PM	**Contributory Talks**	ICGEM-2026-9867	Author: Amitav Doley Title: Equivalence and Redundancy of Topological Indices	OFFLINE
		ICGEM-2026-0116	Author: Erashikha Devi Title: Vertex Energy Under Some Graph Operations	OFFLINE

Session Coordinator: Dr. Nomi Baruah, Dibrugarh University, India

Technical Coordinator: Mr. Chintu Saikia (8134807609) & Ms. Erashikha Devi (8133842875)

Chairperson	Dr. Palash Dutta, Dibrugarh University, India			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:15–5:15 PM	**Contributory Talks**	ICGEM-2026-0211	Author: Saroj Ghosh Title: Fuzzy Edge Coloring and Chromatic Indices in Generalized m-Polar Fuzzy Graphs	OFFLINE
		ICGEM-2026-0210	Author: Bappa Naskar Title: On the diminished Sombor index of bicyclic and c(≥ 3)-cyclic graphs	OFFLINE
		ICGEM-2026-0183	Author: Ankita Bharali Title: A New Framework for MCDM using the Novel Cubic q-Rung Orthopair Fuzzy Frank Murihead Mean	OFFLINE
		ICGEM-2026-0430	Author: Deep Ranjan Gogoi Title: A Novel Approach for Design and Optimization of Deep Neural Networks in Social Media	OFFLINE
		ICGEM-2026-0231	Author: Rakesh Saikia Title: A Hyperbolic Fuzzy Multi-Criteria Decision Support System for Supplier Selection in the Indian Shipbuilding Industry	OFFLINE

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Parallel Session STAT-C

Thursday 19 November 2026

Venue	Statistics Conference Hall

Session Coordinator: Dr. Barnali Sharma, Dibrugarh University, India

Technical Coordinator: Mr. Naba Kumar Borah (6000533951) & Mr. Monish Pratim Saikia (6000506569)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Asit Saha** Title: *Dynamical systems and its application to nonlinear and supernonlinear waves in plasmas*

Chairperson	**Prof. Asit Saha, Sikkim Manipal University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0169	Author: Naba Kumar Borah Title: Nonlinear Propagation of Ion-acoustic Wave Structures in a Collisionless Magnetized Plasmas in presence of (r, q)-distributed eletrons and κ-distributed positrons	OFFLINE
		ICGEM-2026-0193	Author: Hirak Jyoti Dehingia Title: A Study of Two-Dimensional Soliton Dynamics in a Magnetic-Field-Controlled Weakly Inhomogeneous Dusty Plasmas: A Comparative K-P described Dust-Acoustic and Ion-Acoustic Waves	OFFLINE
		ICGEM-2026-0206	Author: Monish Pratim Saikia Title: Nonlinear solitary structures in the corresponding two soliton interactions in self gravitating magnetized complex plasmas	OFFLINE
		ICGEM-2026-0238	Author: Himangshu Kalita Title: Critical behavior of magnetized opposite polarity dusty plasmas with degenerate electrons	OFFLINE

		ICGEM-2026-3908	Author: Jintu Ozah Title: Nonlinear coherent structure in a complex plasma: An impact of non-thermal charged gradients and polarization force	OFFLINE
3:30–3:45 PM	Tea Break			

Chairperson	**Prof. Asit Saha, Sikkim Manipal University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–4:10 PM	**Contributory Talks**	ICGEM-2026-0204	Author: Upam Baishya Title: Linear Dust-AcousticWave Dispersion in Negative-Ion Dusty Plasmas: A Comparative Theoretical Review	OFFLINE
		ICGEM-2026-9503	Author: Tirthanath Doley Title: Role of Nonextensive Parameter and Relativistic Factor in the Formation of Dust Ion-Acoustic Solitary Waves in an Unmagnetized Dusty Plasma	OFFLINE

Session Coordinator: Dr. Barnali Sharma, Dibrugarh University, India

Technical Coordinator: Mr. Naba Kumar Borah (6000533951) & Mr. Monish Pratim Saikia (6000506569)

Chairperson	**Prof. P. N. Deka, Dibrugarh University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:10–5:40 PM	**Contributory Talks**	ICGEM-2026-1526	Author: Supornajeet Majumder Title: Dynamical system analysis of Fractional holographic dark energy in an anisotropic universe	OFFLINE
		ICGEM-2026-3461	Author: Migom Pegu Title: A Massive Scalar Meson Field in Bianchi Type-III Cosmology: Dynamics and Observational Constraints	OFFLINE
		ICGEM-2026-7247	Author: Sat Paul Title: Anisotropic Compact Star Configuration in Symmetric Teleparallel Gravity Using the Buchdahl Metric and a Vanishing Complexity Factor	OFFLINE

		ICGEM-2026-8614	Author: Dipankar Mandal Title: Cosmological consequences of Tsallis Holographic Dark Energy model with a parametrization of scale factor in Lyra manifold	OFFLINE
		ICGEM-2026-7504	Author: Meghana J Title: Effect of Variable Viscosity on Rayleigh- Bénard Convection in a Rotating Ferromagnetic fluid with couple stress	OFFLINE
		ICGEM-2026-0242	Author: Bhaskar Jyoti Dutta Title: Analysing Casson MHD Flow Dynamics with Density–Temperature Variations Using Physics-Informed Neural Networks	OFFLINE
		ICGEM-2026-9002	Author: Syed Eirfan Atthar Title: Fractional-Order Modeling of Magnetohydrodynamic (MHD) Casson Nanofluid Flow in a Porous Microchannel With Caputo Derivative Approach	OFFLINE

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Parallel Session STAT-S

Thursday 19 November 2026

Venue	**Statistics Seminar Hall**

Session Coordinator: Dr. Jibonjyoti Buragohain, Dibrugarh University, India & Dr. Kuldeep Goswami, Dibrugarh University, India

Technical Coordinator: Mr. Lohit Thakur (7002554281) & Mr. Sukanta Paul (6026984013)

Time	Presentation	
3:00–3:30 PM	**Invited Talk (ONLINE)**	Speaker: **Aniket Biswas** Title: *Too Many Tests, Not Enough Truths*
3:30–3:45 PM	**Tea Break**	

Chairperson	**Prof. Bipin Gogoi, Former Professor, Dibrugarh University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3.45–5:45 PM	**Contributory Talks**	ICGEM-2026-0145	Author: Dhriti Kalita Title: Beyond Conventional Survival Models: A Bayesian Neural Heteroscedastic AFT Framework	OFFLINE
		ICGEM-2026-0151	Author: Bornali Khound Title: Application of Parametric Survival Analysis with Mediation Analysis in Breast Cancer Survival; A Case Study of Dibrugarh district of Assam, India	OFFLINE
		ICGEM-2026-0165	Author: Monjit Protim Changmai Title: Application of Bayesian and Classical Statistical Models for the Prediction of Hypertension Among Women	OFFLINE

		ICGEM-2026-0170	Author: Sourav Jyoti Gogoi Title: An Extension of Probability Models for Time to First Live-Birth and Their Applications	OFFLINE
		ICGEM-2026-0237	Author: Antariksha Tamuly Title: Statistical Modelling of Extreme Rainfall under Climate Variability Using Extreme Value Theory in the Brahmaputra Basin Assam	OFFLINE
		ICGEM-2026-0399	Author: Irani Saikia Title: Modeling and Forecasting of Kharif and Rabi Pulse Production in India: An ARIMA-Based Analysis with Rolling-Origin Validation	OFFLINE
		ICGEM-2026-1655	Author: Gariyashi Borah Title: The Human Capital–Economic Wellbeing–Environmental Quality Nexus: Evidence from a Simultaneous Equations Model of Indian States and Union Territories	OFFLINE

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Parallel Session CCSA

Thursday 19 November 2026

Venue	CCSA(Centre for Computer Science and Applications) Class Room No. 201 (First Floor)

Session Coordinator: Dr. Dipankar Das, Dibrugarh University, India

Technical Coordinator: Mr. Bikash Chutia (8486649094) & Ms. Purnima Phukon (9101790323)

Time	Presentation	
2:00–2:30 PM	Invited Talk	Speaker: **Romesh Kumar** Title: *Weighted Composition Operators*

Chairperson	Prof. Romesh Kumar, University of Jammu, India

Time	Presentation	Paper ID	Author and Paper Title	Mode
2:30–3:30 PM	Contributory Talks	ICGEM-2026-4027	Author: Rahul Gogoi Title: Extension of Lohwater-Pommerenke's Theorem for strongly-normal maps	OFFLINE
		ICGEM-2026-5735	Author: Jiwan Kumar Dahal Title: Convergence Analysis, Symmetry, and Visualization of Anti-Julia and Multicorn Sets: The Impact of s-Convexity on Picard–Thakur Hybrid Iteration	OFFLINE
		ICGEM-2026-0241	Author: Oinam Nilbir Singh Title: Hyponormality, Normality, and Algebraic Properties of $wC_\varphi + T_\psi$ on Bergman Spaces	OFFLINE
		ICGEM-2026-8165	Author: Liza Hazarika Title: Fixed point results for Proinov-type contractions in partial modular metric spaces with Applications to Volterra integral equations	OFFLINE
		ICGEM-2026-0096	Author: Purnima Phukon Title: Best Proximity Points of $(\alpha, \psi, F, \varphi, \theta)$-Geraghty Contractions in Partial Modular Metric Spaces	OFFLINE

3:30–3:45 PM	Tea Break			

Time	Presentation	
3:45–4:15 PM	**Invited Talk**	Speaker: **Diganta Borah** Title: *A quasiconformal variant of the union problem*

Chairperson	**Dr. Diganta Borah, IISER Pune, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:15–5:30 PM	**Contributory Talks**	ICGEM-2026-9785	Author: Faeem Ali Title: Extended Picard--Ishikawa Hybrid Iteration for Nonlinear Mappings with an Application	OFFLINE
		ICGEM-2026-6300	Author: Kamran Khan Title: On locally conformally flat almost gradient Ricci solitons	OFFLINE
		ICGEM-2026-3576	Author: Mohd Ishtyak Title: System of Yosida Inclusions involving XOR Operator	OFFLINE
		ICGEM-2026-7723	Author: Mohd Furkan Title: A new approach for solving Cayley inclusion problem and fixed point problem	OFFLINE
		ICGEM-2026-8379	Author: Ayaz Ahmad Title: Generalized Bernstein Bivariate operators Numerical and Graphical investigation and Applications	OFFLINE
		ICGEM-2026-8797	Author: Bikash Chutia Title: Solution of linear multiparameter eigenvalue problems using L- BFGS algorithm	OFFLINE

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Parallel Session IMCH

Thursday 19 November 2026

Venue	**Indira Miri Conference Hall**

Session Coordinator: Dr. Debasish Dey, Dibrugarh University, India

Technical Coordinator: Ms. Upasha Saikia (9706221132) & Mr. Rohit Pegu (9101038839)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Samares Pal** Title: *Catastrophic changes in coral reef dynamics under macroalgal toxicity, elevated sea surface temperature (SST), overfishing and invasion of predators*

Chairperson	**Prof. Samares Pal, University of Kalyani, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0161	Author: Nafisa Sultana Hussain Title: A Graph-Theoretic Representation of Tessera Codes and its applications to Circularity	OFFLINE
		ICGEM-2026-0163	Author: Upasha Saikia Title: Theories on the Origin of the Genetic Code: A Review	OFFLINE
		ICGEM-2026-0197	Author: Rohan Das Title: Bifurcation and Bistability in an Extended Tumor--Immune Model with Dynamically Evolving Immunosuppression	OFFLINE
		ICGEM-2026-0217	Author: Ripam Hazarika Title: Network Organization of Circular Genetic Codes Through Compositional Similarity	ONLINE

		ICGEM-2026-0524	Author: Bhabona Sonowal Title: Eco-Evolutionary Feedback and Environmental Stress in a Delayed Multi-Trait Predator-Prey Model: Stability and Hopf Bifurcation	OFFLINE
3:30–3:45 PM	Tea Break			

Session Coordinator: Dr. Jibonjyoti Buragohain, Dibrugarh University, India

Technical Coordinator: Ms. Upasha Saikia (9706221132) & Mr. Rohit Pegu (9101038839)

Chairperson	**Dr. Debasish Dey, Dibrugarh University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–5:00 PM	**Contributory Talks**	ICGEM-2026-3705	Author: Provid Langthasa Title: A Brief Review on Primary Membranous Nephropathy Research and Its Treatment Through Mathematical Modelling	OFFLINE
		ICGEM-2026-9173	Author: Nitika Datta Title: A Delayed Mathematical Model of Tuberculosis Transmission with Dynamic Community Vulnerability	OFFLINE
		ICGEM-2026-6331	Author: Pankaj Hazarika Title: A class of fuzzy microarray games and a corresponding relevance index for genes	OFFLINE
		ICGEM-2026-0239	Author: Mrinmoy Bhumij Title: Mathematical Modelling of Diabetes Risk Using Probabilistic Methods and Machine Learning	OFFLINE
		ICGEM-2026-0166	Author: Hemanth Manchabale Papachappa Title: Spectral Diagnostic Trajectories (SDT): A Hypergraph-Spectral Framework for Adaptive Clinical Decision Support and Operational Optimization in EHR Systems	ONLINE

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Cultural Programme

Thursday 19 November 2026

Assamese Cultural Collage

6:30 PM – 7:30 PM | Rangghar Auditorium



Bihu Dance and Traditional Assamese Folk Performances

Celebrating the vibrant cultural heritage of Assam

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Dinner

7:45 PM – 9:30 PM

Thursday 19 November 2026

Venue: Department of Mathematics, Dibrugarh University