ICGEM 2026

International Conference on Global Trends in Mathematics and Ethno-Mathematics

Pure and Applied Perspectives

Department of Mathematics | Dibrugarh University

Breakfast

8:00 AM – 9:30 AM

Friday 20 November 2026

Venue: Department of Mathematics, Dibrugarh University

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International Conference on Global Trends in Mathematics and Ethno-Mathematics

Pure and Applied Perspectives

Department of Mathematics | Dibrugarh University

Day 2 Morning Programme

Friday 20 November 2026

Venue: Indira Miri Conference Hall

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

Time	Programme
10:00 AM–11:10 AM	3rd B R Seth Memorial Lecture Speaker: **Prof. Swaroop Nandan Bora,** Indian Institutes of Technology, Guwahati, India Title: *Dynamics of Water Waves Induced by Tsunami-driven Moving Landslides*
11:10 AM–11:30 AM	Tea
11:30 AM–12:30 PM	Plenary talk II Speaker: **Prof. Amiya Kumar Pani ,** Birla Institute of Technology & Science, Pilani, India Title: *On Backward Time-Fractional Diffusion Problems: A Unified Approach*
12:30 PM–12:45 PM	Group Photo Venue: Department of Mathematics, Dibrugarh University
12:45 PM–2:00 PM	Lunch Venue: Department of Mathematics, Dibrugarh University
2:00 PM onwards	Parallel Technical Sessions Tea break: 3:30 PM–3:45 PM

Technical Session Rooms

Room code	Venue
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 requested to follow the allotted schedule, as rescheduling of contributory talks will not be possible.

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Parallel Session MATH-C

Friday 20 November 2026

Venue	Mathematics Conference Hall

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

Technical Coordinator: Mr. Tarun Boruah (9854710898) & Mr. Chintu Saikia (8134807609)

Time	Presentation	
2.00-2.30 PM	**Invited Talk**	Speaker**: Partha Jyoti Hazarika**, Dibrugarh University, India Title: *Classical and Bayesian Inference for the Inverse Power New XLindley Distribution with Applications and Change-Point Analysis*

Chairperson	**Prof. Sarat Chandra Kakaty, Former Professor, Dibrugarh University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2.30-3.30 PM	**Contributory Talks**	ICGEM-2026-0063	Author: Bhupakhi Deka Title: Stochastic Modeling and Performance Analysis of a UAV Landing and Take-Off Pad System	OFFLINE
		ICGEM-2026-0157	Author: Nitesh Bothra Title: Comparative Modeling of Rainfall Using Supervised Machine Learning and Feature Engineering: A Case Study of Assam	OFFLINE
		ICGEM-2026-7288	Author: Afruza Begum Title: Influence of Girl Students' Anxiety on Mathematics Achievement in Dhubri district of Assam	OFFLINE
3:30–3:45 PM	Tea Break			

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

Technical Coordinator: Mr. Tarun Boruah (9854710898) & Mr. Chintu Saikia (8134807609)

Time	Presentation	
3.45–4.15 PM	**Invited Talk**	Speaker: **Madhumangal Pal** Title: *Real Neutrosophic Numbers and Their Applications*

Chairperson	**Prof. Madhumangal Pal, Vidyasagar University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:15–5:30 PM	**Contributory Talks**	ICGEM-2026-0164	Author: Tarun Boruah Title: Degree-Ratio Sombor Index and Its Modified Variant: Chemical Applications and Mathematical Properties	OFFLINE
		ICGEM-2026-6738	Author: Chintu Saikia Title: A Novel Revan Degree-Based Molecular Descriptor: The Revan Degree-Ratio Sombor index	OFFLINE
		ICGEM-2026-0240	Author: Rajdeep Bora Title: Structural analysis of black phosphorus using numerical descriptors	OFFLINE
		ICGEM-2026-0226	Author: Susmita Dutta Title: Survey of Degree-Based Topological Indices of Hypergraphs	OFFLINE
		ICGEM-2026-8886	Author: Ankita Kakoty Title: On Parametric Quadratic Eigenvalue Problems	OFFLINE

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Parallel Session MATH-S

Friday 20 November 2026

Venue	Mathematics Seminar Room

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

Technical Coordinator: Mr. Parash Bora (7635966482) & Mr. Monish Pratim Saikia (6000506569)

Chairperson	Prof. Amiya Kumar Pani, Birla Institute of Technology & Science, Pilani, India			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:00–3:30 PM	**Contributory Talks**	ICGEM-2026-0162	Author: Achyuta Ranjan Dutta Mohapatra Title: Numerical analysis of the second-order time-dependent saddle point Maxwell system via a parameter-free discontinuous Galerkin method: The first optimal -norm error estimates	OFFLINE
		ICGEM-2026-0221	Author: Jayesh Bhardwaj Title: Hybrid High-Order method for a time-dependent diffusion problem	ONLINE
		ICGEM-2026-0229	Author: Parash Bora Title: Stability and Optimal Error Analysis of a Hybrid High-Order Method for Hyperbolic Integro-Differential Equations	OFFLINE
		ICGEM-2026-3771	Author: Pooja Biswas Title: Divergence-Free Virtual Element Method for the Kelvin-Voigt Model	OFFLINE
		ICGEM-2026-8042	Author: Sweta Chakraborty Title: A Local Discontinuous Galerkin Method for the coupled Navier-Stokes-Darcy model	OFFLINE
3:30–3:45 PM	Tea Break			

Session Coordinator: Prof. Surajit Borkotokey, Dibrugarh University, India

Technical Coordinator: Mr. Parash Bora (7635966482) & Mr. Monish Pratim Saikia (6000506569)

Time	Presentation	
3:45–4:15 PM	**Invited Talk**	Speaker: **Gopakumar Achuthankutty** Title: *Cooperative Games and Uniqueness-Inducing Mechanisms*

Chairperson	**Dr. Gopakumar Achuthankutty, Indira Gandhi Institute of Development Research, Mumbai, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:15–5:45 PM	**Contributory Talks**	ICGEM-2026-0214	Author: Abhijit Bora Title: A Link-Based Approach to the Solidarity Value for Network Games	OFFLINE
		ICGEM-2026-0219	Author: Ankita Gogoi Title: Structure-Dependent Probabilistic Values for Hypergraph Games	OFFLINE
		ICGEM-2026-0234	Author: Niharika Kakoty Title: A Two-Step Shapley-Solidarity Value for Coalitional Network Games	OFFLINE
		ICGEM-2026-0346	Author: Ankur Gogoi Title: What the Borda Count Cannot Tell You About the Condorcet Winner?	ONLINE
		ICGEM-2026-9203	Author: Babangida Bature Title: An EOQ Model for Non-Instantaneously Deteriorating Agricultural Products under Seasonal Demand, Inflation, Energy-Dependent Holding Cost and Trade Credit Policy	OFFLINE
		ICGEM-2026-0185	Author: Parishmita Boruah Title: Multilayered Committee-Structured Games	OFFLINE
		ICGEM-2026-0167	Author: Sujata Goala Title: Reconciling Marginalist and Egalitarian Approaches in Networks: A Class of Solidarity Allocation Rules	OFFLINE

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Parallel Session MATH-R1

Friday 20 November 2026

Venue	Mathematics Class Room No. 1 (Ground Floor)

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

Technical Coordinator: Mr. Anubhav Chaliha (8011810772) & Mr. Forid Ahmed (6003374244)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Harishchandra Ramane** Title: *Hamming Eigenvalues and Hamming Energy of Graphs*

Chairperson	Prof. Harishchandra Ramane, Karnatak University, India			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0168	Author: Anubhav Chaliha Title: Exponential Sombor Type Indices for Octane Isomers: A QSPR Study	OFFLINE
		ICGEM-2026-0179	Author: Idweepjyoti Gogoi Title: On spectra and energy of ABC matrix of variants of corona and their applications	OFFLINE
		ICGEM-2026-0212	Author: Provat Ghosh Title: An Intelligent Graph-Based Framework for 15-Minute Healthcare Accessibility	OFFLINE
		ICGEM-2026-0213	Author: Purbasha Giri Title: Energy-Based Spectral Analysis of Neutrosophic Graphs	OFFLINE
		ICGEM-2026-0225	Author: Jayanta Sarkar Title: A Study on Linguistic Z-threshold Graphs	OFFLINE
3:30–3:45 PM	Tea Break			

Chairperson	Prof. Harishchandra Ramane, Karnatak University, India			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–4:45 PM	**Contributory Talks**	ICGEM-2026-0171	Author: Abhigyan Mahanta Title: Spectral Properties Connected to Difference Between Redefined First Index and Harmonic Index of Graphs	OFFLINE
		ICGEM-2026-2613	Author: Nabajit Talukdar Title: Cut edges and Central vertices of zero divisor graph of the ring of integers modulo n	OFFLINE
		ICGEM-2026-4090	Author: Gasper George Nyauli Title: On Geometric Interpretations of the Augmented Sombor Index	OFFLINE
		ICGEM-2026-6078	Author: Priyanka Agarwal Title: Characterization of Gutman and Schultz Indices in Random Polygonal Chains	OFFLINE
		ICGEM-2026-6288	Author: Manas Pratim Kalita Title: On Prime Sum Graphs and Restricted Prime Sum Graphs	OFFLINE

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Parallel Session STAT-C

Friday 20 November 2026

Venue	Statistics Conference Hall

Session Coordinator: Prof. P. N. Deka, Dibrugarh University, India

Technical Coordinator: Mr. Rohit Pegu (910138839) & Ms. Indunesi Saikia (9957255130)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Gorachand Layek** Title: *Deterministic Chaos in Discrete Systems and Self-organizations*
2.30- 3.00 PM	**Invited Talk (ONLINE)**	Speaker: **Bivas Panigrahi**, National Chin-Yi University of Technology, Taiwan Title: *Entropy Estimation through Infrared Thermographic Particle Image Velocimetry*

Chairperson	**Prof. Gorachand Layek, University of Burdwan, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:00–3:30 PM	**Contributory Talks**	ICGEM-2026-0199	Author: Dulal Chandra Das Title: Influence of negatively charged mobile dust particles on cubic nonlinear dust ion acoustic modified Korteweg-de Vries solitons	OFFLINE
		ICGEM-2026-1440	Author: Khusbu Devi Title: Non-Linear Mixed Convective Hybrid Nanofluid Flow Past an Inclined Surface with Arrhenius Activation Energy	OFFLINE
3:30–3:45 PM	Tea Break			

Session Coordinator: Prof. P. N. Deka, Dibrugarh University, India

Technical Coordinator: Mr. Rohit Pegu (910138839) & Ms. Indunesi Saikia (9957255130)

Chairperson	**Prof. Umananda Dev Goswami, Dibrugarh University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–5.00 PM	**Contributory Talks**	ICGEM-2026-2557	Author: Indunesi Saikia Title: Numerical Simulation of Williamson Hybrid Nanofluid Flow over an Inclined Stretching Porous Surface with Chemical Reaction	OFFLINE
		ICGEM-2026-4879	Author: Robin Pegu Title: Influence of Cattaneo- Christov thermal flux and concentration model on the flow of Walters' B fluid with Activation Energy and Slip effect	OFFLINE
		ICGEM-2026-5279	Author: Rohit Pegu Title: Dusty Maxwell fluid flow past a stretching surface with convective boundary conditions and parametric sensitivity analysis	OFFLINE
		ICGEM-2026-8203	Author: Fansmika Pathak Title: Effect of Hall Current on MHD Flow through a Curved Duct with Square Cross Section	OFFLINE
		ICGEM-2026-8388	Author: Pranjal Sarmah Title: CFD-Driven Thermal Analysis in Shell-and-Tube Heat Exchangers: A Review of Modern Heat Transfer Enhancement	OFFLINE
		ICGEM-2026-4192	Author: Anannya Phukan Title: Three-Dimensional Magneto-Bioconvective Transport of MWCNT-Fe_3O_4/water hybrid nanofluid over a Time-Dependent Bidirectionally Stretching Surface with Thermal Radiation	OFFLINE

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Parallel Session STAT-S

Friday 20 November 2026

Venue	Statistics Seminar Hall

Session Coordinator: Dr. Palash Dutta, Dibrugarh University, India

Technical Coordinator: Mr. Manav Neog (6003548157) & Ms. Dristi Rajbonshi (7086367186)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Harish Garg** Title: *Preventive Maintenance Scheduling & Actions: An Optimization model*

Chairperson	**Dr. Harish Garg, Thapar Institute of Engineering & Technology (Deemed University), Punjab, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0173	Author: Sonom Shome Title: A Novel Distance Measure for Weighted Evidence Combination Method within Dempster-Shafer Theory	OFFLINE
		ICGEM-2026-0180	Author: Lohit Thakur Title: Beyond degree: Hyperbolic centrality and closeness in uncertain graph	OFFLINE
		ICGEM-2026-0181	Author: Manav Neog Title: A Hyperbolic Multi Criteria Decision Making Framework for Agricultural Productivity Assessment	OFFLINE
		ICGEM-2026-0235	Author: Mukesh Lahon Title: Fuzzy Eigenvalue Analysis of Cubic Alternating Matrix Polynomials Using Structure-Preserving Linearization	OFFLINE
		ICGEM-2026-0182	Author: Alakananda Konwar Title: A Novel Distance Measure on Quintic Fuzzy Sets and its Application in Decision-Making and Clustering	OFFLINE

3:30–3:45 PM	Tea Break			

Chairperson	**Dr. Harish Garg, Thapar Institute of Engineering & Technology (Deemed University), Punjab, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–4:45 PM	**Contributory Talks**	ICGEM-2026-0223	Author: Arpita Bhowmik Title: Intuitionistic Linguistic Rough MCGDM Model for Sustainable Supplier Selection	OFFLINE
		ICGEM-2026-0233	Author: Krishna Rani Maity Title: An Enhanced Multi-Attribute Decision-Making Framework Using m-Polar Fuzzy Z-Numbers	OFFLINE
		ICGEM-2026-4895	Author: Nidhi Agarwal Title: A comprehensive analysis of weighting-based multi-attribute decision-making methods in the context of Zika virus based on a novel hyperbolic fuzzy score function	OFFLINE
		ICGEM-2026-0159	Author: Dristi Rajbonshi Title: A Novel Distance Measure-Based MCDM Approach for Stock Selection under Hyperbolic Fuzzy Environment	OFFLINE
		ICGEM-2026-0236	Author: Debakanta Buragohain Title: Exploring Real-World Decision-Making Through Fuzzy Graph Theory: A Survey of Recent Progress	OFFLINE

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Parallel Session CCSA

Friday 20 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. Sukanta Paul (6026984013) & Ms. Sujata Saikia (9678287497)

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **M. Premjit Singh** Title: *A Graph-Theoretic Approach to Commutativity and Compactness of kth order slant Toeplitz Operators*

Chairperson	**Prof. M. Premjit Singh, Manipur University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
2:30–3:30 PM	**Contributory Talks**	ICGEM-2026-0176	Author: Munindra Regon Title: Geometric Properties of Relative Uniform Lacunary Convergence in Orlicz Function Spaces	OFFLINE
		ICGEM-2026-0186	Author: Ruprekha Devi Title: Solvability of Infinite System of Mixed integral Equations of two variables in the context of Sequence Spaces	OFFLINE
		ICGEM-2026-0400	Author: Anoop Title: Stability Alienation of Jensen Functional Equation Involving Involution	OFFLINE
		ICGEM-2026-9506	Author: Nishikesh Upadhyaya Title: Some new results on the Riemann Liouville fractional integral operator on Morrey Space	OFFLINE
3:30–3:45 PM	Tea Break			

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

Technical Coordinator: Mr. Sukanta Paul (6026984013) & Ms. Sujata Saikia (9678287497)

Time	Presentation	
3:45–4:15 PM	**Invited Talk**	Speaker: **Jayanta Borah** Title: *Best Proximity results − Development and Applications*

Chairperson	**Dr. Jayanta Borah, Tezpur University, India**			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
4:15–5:30PM	**Contributory Talks**	ICGEM-2026-0153	Author: Debabrata Biswal Title: Generalized Continuous Wavelet Transform Associated with the Novel Short-Time Fractional Fourier Transform.	ONLINE
		ICGEM-2026-0175	Author: Sukanta Paul Title: On the Geometry of Fractional Difference Sequence Spaces of Complex Uncertain-Valued Functions	OFFLINE
		ICGEM-2026-0195	Author: Rupam Kumar Das Title: Existence Results for Non-Instantaneous Neutral Delay Differential Equation with Application to Spatially Distributed Infection Model	OFFLINE
		ICGEM-2026-2658	Author: Satyabrot Kalita Title: New results of Solutions to Nonlinear Fractional Integro-Differential Equations with deviating argument	OFFLINE
		ICGEM-2026-5589	Author: Sujata Saikia Title: Difference Lacunary Weak Convergence of Sequences of Functions	OFFLINE
		ICGEM-2026-0202	Author: Bharati Borgohain Title: A Homotopy Based Numerical Method for Solving Polynomial Two-parameter Eigenvalue Problems	OFFLINE

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Parallel Session IMCH

Friday 20 November 2026

Venue	Indira Miri Conference Hall

Session Coordinator: Dr. Hirak Jyoti Dehingia, Dibrugarh University, India

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

Time	Presentation	
2:00–2:30 PM	**Invited Talk**	Speaker: **Nomi Baruah** Title: *Machine Translation for the Languages of Assam: Challenges, Resources, and Emerging Directions in the Era of Multilingual and Pre-trained Models*
2.30-3.00 PM	**Invited Talk (ONLINE)**	Speaker: **Hridoy Jyoti Mahanta, Advanced Computation and Data Sciences Division, CSIR-North East Institute of Science and Technology, India** Title*: Multimodal Deep Learning for Geoscience: Integrating Heterogeneous Earth Observations for Intelligent Earth-System Modelling*

Chairperson	Dr. Nomi Baruah, Dibrugarh University, India

Time	Presentation	Paper ID	Author and Paper Title	Mode
3:00–3:30 PM	**Contributory Talks**	ICGEM-2026-2456	Author: Pratiksha Phukon Title: Loss Functions Under Label Noise: A Controlled Comparison of Cross-Entropy, GCE, SCE, and Label Smoothing	OFFLINE
		ICGEM-2026-0230	Author: Dipu Sarkar Title: Dissolved Gas Analysis-Based Power Transformer Fault Diagnosis and RUL Forecasting by Machine Learning	OFFLINE
3:30–3:45 PM	Tea Break			

Chairperson	Dr. Nomi Baruah, Dibrugarh University, India			
Time	**Presentation**	**Paper ID**	**Author and Paper Title**	**Mode**
3:45–5:15 PM	**Contributory Talks**	ICGEM-2026-0291	Author: Niku Borgohain Title: Analytical Capacity Analysis of SWIPT-based M-MRC Receiver over TWDP Fading Channels with Imperfect Channel Estimation	OFFLINE
		ICGEM-2026-6898	Author: Gaurav Mali Title: Deep Learning-Based Pumpkin Leaf Disease Classification using Triple Statistical Pooling with Efficient-B3	OFFLINE
		ICGEM-2026-9856	Author: Pinky Roy Title: Student Academic Achievement Analysis Using Cluster Analysis: A Machine Learning – Based Educational Data Mining Study	OFFLINE
		ICGEM-2026-0187	Author: Gunjan Malakar Title: Mathematical Modelling for Explainable Multimodal Educational Data Mining	OFFLINE
		ICGEM-2026-2279	Author: Pal Deka Title: An Integrated K-Means Clustering and Machine Learning Approach for Identifying Profitable Companies in NSE	OFFLINE
		ICGEM-2026-9616	Author: Kasturi Bordoloi Title: Hybrid Fuzzy-Deep Learning Model for Face Recognition with Facial Masks	OFFLINE
		ICGEM-2026-3021	Author: Udit Kashyap Barman Title: A Study on NLP Using BERT and Transformer Variants in Real-Time Social Media Text Beyond 2018	OFFLINE
		ICGEM-2026-0194	Author: Loi Huynh Title: RDP-Prox, A Fast Differential Privacy Budget Approximation Algorithm Based on Renyi Divergence	ONLINE

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Evening Session MATH-S

Friday 20 November 2026

Venue	Mathematics Seminar Room

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

Technical Coordinator: Mr. Himangshu Kalita (8638388517)

Chairperson	**Prof. Surajit Borkotokey, Dibrugarh University, India**	
Time	**Presentation**	**Speaker**
6.15-6.45 PM	**Invited Talk**	Speaker: **Ayman Badawi**, American University of Sharjah, UAE Title: *On the M-Graph of a finite abelian group*
6.45-7.15 PM	**Invited Talk**	Speaker: **Naresh Kumar**, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India Title: *Weak Galerkin Finite Element Methods for Time-Dependent Problems: Stabilized and Stabilizer-Free Formulations*
7.15-7.45 PM	**Invited Talk**	Speaker: **Ram N. Mohapatra**, University of Central Florida, USA Title: *Machine Learning, Artificial Intelligence, and Data Science in an application in Correlation Pattern Recognition*

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Conference Dinner

7:45 PM – 9:45 PM

Friday 20 November 2026

Venue: Department of Mathematics, Dibrugarh University