Five Day Workshop on "Mathematical Principles for Modern Problem-Solving: Applications, Modelling, Analytics & AI Tools"

Day 1 (16.02.2026)	Day 2 (17.02.2026)	Day 3 (18.02.2026)	Day 4 (19.02.2026)	Day 5 (20.02.2026)
10:30 am - 11:00 am				
Inaugural Session				
11:00 am - 1:00 pm	**11:00 am - 1:00 pm**	**11:00 am - 1:00 pm**	**11:00 am - 1:00 pm**	**11:00 am - 1:00 pm**
Session 1: **Mathematical Analysis as a Framework for Real-World Problem Solving** Prof. (Dr.) Nayandeep Deka Baruah, Tezpur University	Session 3: **Numerical Analysis as a Tool for Modelling Real-World Dynamic Systems** Prof. (Dr.) Bhupen Deka, IIT Guwahati	Session 5: **Artificial Intelligence as a Research Partner: Emerging Tools, Trends, and Transformative Impact** Prof. (Dr.) Manoj Kumar Deka, Assam Skill University, Guwahati	Session 7: **Applications of Probability in Machine Learning and Data Science** Prof. (Dr.) Kishore Kumar Das, Gauhati University	Session 9: **Applications of Cooperative Game Theory and Network Games in Economic Systems** Prof. (Dr.) Surajit Borkotokey, Dibrugarh University
2:00 pm - 4:00 pm	**2:00 pm - 4:00 pm**	**2:00 pm - 4:00 pm**	**2:00 pm - 4:00 pm**	**2:00 pm - 4:00 pm**
Session 2: **Linear Algebra for Applied Analysis & Computation** Prof. (Dr.) Munmun Hazarika, Tezpur University	Session 4: **AI Applications in Science and Technology** Dr. Tarini Kumar Dutta, Assam Don Bosco University	Session 6: **Application of Machine Learning in Quantitative Techniques** Prof. (Dr.) Sanasam Ranbir Singh, Dept. of CSE, IIT Guwahati	Session 8: **Applied Probability and Risk Analysis in Engineering Systems and Reliability** Prof. (Dr.) Dilip Chandra Nath, RGU	Session 10: **Dynamic System Modelling using Calculus** Prof. (Dr.) Bhupen Deka, IIT Guwahati
				4:00 pm - 4:30 pm Valedictory Session