

Non-equilibrium Dynamics in Condensed Matter Systems

Visitor's Programme – 18–19 March, 2026

Department of Physics & Astrophysics
University of Delhi, Delhi–110007

Venue: Seminar Hall (G12), Kanad Bhawan

PROGRAM SCHEDULE

March 18, 2026 (Wednesday)

9:30 – 10:15 AM Registration

10:15 – 10:30 AM Opening Remarks by Prof. Debajyoti Choudhury (HoD)

Session Chair: Prof. Debajyoti Choudhury

10:30 – 11:30 AM *Unexpected patterns in bacterial growth and division*

Prof. Sanjay Jain, University of Delhi and Santa Fe Institute

11:30 – 12:00 PM **High Tea**

Session Chair: Prof. Amita Chandra

12:00 – 1:00 PM *Kinetics of Phase Transitions: Living Liquid Crystals*

Prof. Sanjay Puri, JNU Delhi

1:00 – 2:10 PM **Lunch**

Session Chair: Prof. Binay Kumar

2:10 – 3:00 PM *The Shape of Quantum Matter*

Dr. Gargee Sharma, IIT Delhi

3:00 – 3:40 PM *Molecules in cavity: Coupling and consequences*

Dr. Govind Dayal, University of Delhi

3:40 – 4:20 PM *Unraveling Nonequilibrium Dynamics of Polymer Collapse through Molecular Simulations*

Dr. Suman Majumder, Amity University Noida

4:20 – 5:30 PM Poster Session with Tea

Coordinators: Dr. Archana Mishra, Dr. Suman Chowdhury,
Dr. Vikram Rathee

March 19, 2026 (Thursday)

Session Chair: Prof. S. A. Hashmi

10:00 – 11:00 AM *The Nature of Dynamical Quantum Phase Transitions*

Prof. S. M. Bhattacharjee, Ashoka University

11:00 – 11:20 AM **Tea Break**

Session Chair: Prof. S. Murugavel

11:20 – 12:20 PM *Non-linear damping in Palladium Nanomechanical resonators*

Prof. Ananth Venkatesan, IISER Mohali

12:20 – 1:10 PM *Magnetic nanoparticles at liquid-liquid interface : Assembly, rheology and structure*

Prof. Sajal Ghosh, Shiv Nadar University, Greater Noida

1:10 – 2:30 PM **Lunch**

Session Chair: Prof. P. Senthil Kumar

2:30 – 3:20 PM *Magnetization dynamics in magnetic materials: Fundamentals to devices*

Prof. S. Annapoorni, University of Delhi

3:20 – 4:00 PM *Non-equilibrium Dynamics of Localized Stresses in Dense Suspensions*

Dr. Vikram Rathee, University of Delhi

4:00 – 4:20 PM **Tea Break**

4:20 – 5:00 PM *Study of Bio-Molecules Under the Effects of Mechanical Force and Ions around the DNA*

Dr. Rakesh K. Mishra, University of Delhi

5:00 – 5:30 PM Concluding Remarks: Prof. S. Murugavel