Day 1 (27th March, Friday)

Inaugural lecture, Chair: **Dr. Sameen Naqvi**

Prof. GSR Murthy, ISI Hyderabad (**9:00 AM – 9:45 AM**)

Title: Statistics and Operations Research in Applied Work: Reflections from Theory to Practice

Session title: **Reliability theory (Day 1),** Chair: **Dr. Sameen Naqvi**

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1. *Keynote lecture*: **9:45 AM – 10:30 AM**
   Talk title: Convex Ordering in Gamma Family and its Application in the Problem of Selecting the Most Reliable System
   Speaker: **Prof. Neeraj Misra, IIT Kanpur**

2. *Invited talk*: **10:30 AM – 10:55 AM**
   Talk title: On Some Important Reliability Aspects of Coherent Systems
   Speaker: **Dr. Tanmay Sahoo, IIT Palakkad**

Tea Break (**10:55 AM – 11:15 AM**)

Session title: **Statistical & Computational Genomics**, **11:15 AM – 12:50 PM**, Chair: **Dr. Arunabha Majumdar**

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3. *Keynote lecture*: **11:15 AM – 12:00 Noon**
   Talk title: Genetic architecture of complex traits in the Indian population
   Speaker: **Dr. Bratati Kahali, IISc**

4. *Invited talk*: **12:00 Noon – 12:25 PM**
   Talk title: Statistical methods for integrating genomics data to identify pleiotropy across complex traits.
   Speaker: **Dr. Samsiddhi Bhattacharjee, NIBMG**

5. *Invited talk*: **12:25 PM – 12:50 PM**
   Talk title: Associating Non-coding Enhancer Variants with Altered Transcriptional Regulation in ALS Pathogenesis
   Speaker: **Dr. Rahul Kumar, IIT Hyderabad**

Lunch Break (**12:50 PM – 2:15 PM**)

Session title: **Biostatistical Methods, 2:15 PM – 3:55 PM, Chair: Dr. Palash Ghosh**

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6. *Invited talk*: **2:15 PM – 2:40 PM**
   Talk title: Modeling Zero-Inflated Longitudinal Circular Data Using Bayesian Methods: Application to Ophthalmology
   Speaker: **Dr. Jayant Jha, ISI Kolkata**

7. *Invited talk*: **2:40 PM – 3:05 PM**
   Talk title: Healthy aging as information divergence in the multiplex brain

   Speaker: **Dr. Moumita Das, IIM Udaipur**

8. *Invited talk*: **3:05 PM – 3:30 PM**
   Talk title: Optimal Adaptive SMART Designs with Binary Outcomes
   Speaker: **Dr. Rik Ghosh, Johnson & Johnson**

9. *Industry talk*: **3:30 PM – 3:55 PM**
   Talk title: Estimand and Causal Framework in the presence of a Non-Susceptible Fraction in Cardiovascular Trials
   Speaker: **Dr. Swarnendu Chatterjee, Eli Lilly**

Tea Break (**3:55 PM – 4:15 PM**)

Students' Talks: **4:15 PM – 6:00 PM**

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10. **4:15 PM – 4:30 PM**
    Talk title: Relative Ageing Properties for Distorted Lifetimes with Heterogeneous Structural Functions (Reliability Engineering)
    Speaker: **Anoop V S, Vellore Institute of Technology, Vellore Campus**

11. **4:30 PM – 4:45 PM**
    Talk title: Hybrid Nonparametric Approach for Stochastic Regression in Time Series (Decision Sciences)
    Speaker: **Kunal Rai, Indian Institute of Management Bangalore**

12. **4:45 PM - 5:00 PM**
    Talk title: A Flexible Modeling of Extremes in the Presence of Inliers (Finance)

    Speaker: **Shivshankar Nila, Indian Institute of Technology Tirupati**

13. **5:00 PM – 5:15 PM**
    Talk title: Optimal and robust stepped wedge designs with unequal cluster sizes (Methodology)

Speaker: **Soumadeb Pain, Indian Institute of Technology Kanpur**

14. **5:15 PM - 5:30 PM**
Talk title: Adaptive Learning Architecture Combining Retrieval-Augmented Generation and Bayesian Knowledge Tracing
Speaker: **Nikhil Jha, Ramaiah University of Applied Sciences, Bengaluru**

15. **5:30 PM - 5:45 PM**
Talk title: A unified hierarchical Bayesian approach to transcriptome-wide association study (Genomics)
Speaker: **Arnab Kumar Khan, Indian Statistical Institute, Kolkata**

16. **5:45 PM - 6:00 PM**
Talk title: Stable Epidemiological Risk-Factor Discovery Under Multicollinearity: Elastic-Net Logistic Regression with Bootstrap Stability Diagnostics (Biostatistics)

Speaker: **Sagnik Acharyya, Visva-Bharati University**

Poster presentation: 6:00 PM – 7:30 PM.

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Day 2 (28th March, Saturday)

Session title: **Quantitative Finance and Time Series Data**, Chair**: Dr. Sayantee Jana**

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17. *Keynote lecture*: **9:00 AM – 9:45 AM**
Talk title: Functional Data Analysis
Speaker: **Dr. Rituparna Sen, ISI Bangalore**

18. *Invited talk*: **9:45 AM – 10:10 AM**
Talk title: Early Warning Systems for Financial Crises: A Statistical and Econometric Approach
Speaker: **Prof. Prabheesh, IIT Hyderabad**

19. *Contributed Talk*: **10:10 AM – 10:35 AM**
Talk title: Exploring Finite Gaussian Mixtures as Innovations in AR(1) Model with Explanatory Variable
Speaker: **Dr. Anuj Nain, NDIM**

Session title: Clinical Statistics, Chair: **Dr. Rituparna Sen**

20. *Keynote lecture*: **10:55 AM – 11:40 AM**
Talk title: Efficacy optimized eligibility criteria with improved generalizability of emulated trial results
Speaker: **Ms. Nandini Bhosale, Pfizer**

21. *Invited talk*: **11:40 AM – 12:05 PM**
Talk title: From Side Effects to Safer Care: Monitoring Drug Safety - A Statistical Lens on Pharmacovigilance
Speaker: **Dr. Palash Ghosh, IIT Guwahati**

22. *Industry talk*: **12:05 PM – 12:30 PM**
Talk title: PREDOSE : Pharmacometrically-Refined Early-phase Dose Optimization design for Oncology Study Enhancement
Speaker**: Dr. Damitri Kundu, Eli Lily**

23. *Industry talk*: **12:30 PM – 12:55 PM**
Talk title: Declaring Doses as Safe in Ongoing Oncology Dose-Escalation Trials: Are They Truly Safe? A Critical Assessment of Safety Criteria
Speaker: **Dr. Anirban Mitra, Johnson & Johnson**

(Parallel Session: mandatory for students) Hands-on session in R: **2:20 PM – 4:00 PM**

Parallel session: **Modelling and Optimization, 2:20 PM – 4:00 PM.** Chair: **Dr. Jayant Jha**

24. *Invited Talk*: **2:20 PM – 2:45 PM**
Talk title: Exploiting Symmetry in Optimization: Applications of the Purkiss Principle to Optimal Experimental Design
Speaker: **Dr. Satya Prakash Singh, IIT Kanpur**

25. *Invited Talk*: **2:45 PM – 3:10 PM**
Talk title: Large Wave Direction Data Modeling Using Wrapped Spatial Gaussian Markov Random Fields
Speaker: **Dr. Arnab Hazra, IIT Kanpur**

26. *Invited Talk*: **3.10 PM – 3:35 PM**

Talk title: Modelling alternately recurring events: a frailty based hazard estimation approach.
Speaker: **Dr. Moumita Chatterjee, ISI Hyderabad**

27. *Contributed Talk:* **3:35 PM – 4:00 PM**
    Talk title: Reliability study of a parallel system equipped with two warm standby components
    Speaker: **Dr. Achintya Roy, NIT Warangal**

Tea Break (**4:00 PM – 4:15 PM**)

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*(**Parallel Session**: mandatory for students) Hands-on session in Python*, **4:15 PM – 6:00 PM**

Parallel session: *Industry Workshop by **Eli Lilly***, **4:15 PM – 6:00 PM**
Workshop Title: AI and ML in Drug Development
Speaker: **Dr. Swarnendu Chatterjee, Eli Lilly**

Panel on Career Opportunities in Statistics (6:00 PM – 7:30 PM), Chair: **Dr. Sayantee Jana**

Awards Announcement (**15 minutes**): **7:30 PM – 7:45 PM**

Vote of Thanks: 7:45 PM – 7:50 PM

-- **Closure** --