

# Indian Statistical Institute

Applied Statistics Unit

## SEMINAR NOTICE

(Pre-Submission Seminar)

**Speaker:** Atanu Kumar Ghosh, Presidency University

**Title:** Data Reduction Using EM Algorithm with Deliberately Introduced Missing  
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**Venue:** ASU Seminar Room

**Date:** 24 November, 2022

**Time:** 12:00 noon

**Online Platform:** Google Meet ([meet.google.com/ueo-dzrj-zim](https://meet.google.com/ueo-dzrj-zim))

### **Abstract:**

Recent scientific applications produce data that are too large for storing or rendering for further statistical analysis. This motivates the construction of a filtering mechanism to choose a subset of data so that inferences can be drawn about the parent population using only the stored observations. In this work, we have studied how we can apply filtering mechanisms to store a part of the data and yet draw reasonable inferences using EM Algorithm both in independent and dependent data set-up. Finally, we shall discuss on the construction of an optimum filtering mechanism.

**All are invited to attend.**