

# Random Graphs (Options Course) for B.Stat. IIIrd Year

## Project Presentation Schedule

Date: May 13, 2025 (Tuesday) Time: 10:30 AM - 06:00 PM

Venue: L- $\infty$  Seminar Room, 5th Floor, A. N. Kolmogorov Bhavan

Time	Name (Roll No.)	Project Title
10:30 AM - 11:00 AM	Ritwick Pal (BS2222)	S1: Cayley's Formula and Uniform Spanning Tree of the Complete Graph on $n$ vertices
11:05 AM - 11:35 AM	Aishik Raysharma (BS2204)	S2: Large Deviation Bounds: Binomial and Poisson Rate Functions
11:40 AM - 12:10 PM	Koustav Goswami (BS2218)	S3: Asymptotic Degree Distribution of Erdős-Rényi Binomial Random Graphs
12:10 PM - 12:20 PM	—	<b>BREAK</b>
12:20 PM - 12:50 PM	Swastika Dey (BS2246)	S4: Sub-Graph Containment Threshold for the Erdős-Rényi Binomial Random Graphs
12:55 PM - 01:25 PM	Srijan Saha (BS2238)	S5: CLT for the Size of the Giant Component for the Super-Critical Erdős-Rényi Binomial Random Graph
01:25 PM - 02:30 PM	—	<b>LUNCH</b>
02:30 PM - 03:00 PM	Suvankar Saha (BS2244)	S6: Erdős-Gallai Theorem
03:05 PM - 03:35 PM	Shreyansh Mukhopadhyay (BS2147)	S7: Factorial Moment Convergence and Weak Convergence to Poisson Distribution
03:35 PM - 03:45 PM	—	<b>BREAK</b>
03:45 PM - 04:45 PM	Koustav Chowdhury (BS2217) Rudrayan Kundu (BS2224)	P1: Studying the Structure of the Local Neighborhood of a Randomly Selected Vertex of a Large but Sparse Erdős-Rényi Binomial Random Graph (PARTS I & II)
04:50 PM - 05:50 PM	Saptashwa Baisya (BS2226) Somarddha Das (BS2232)	P2: Comparison between Configuration Model with i.i.d. Binomial( $n, p$ ) Degree Distribution and the Corresponding Erdős-Rényi Binomial Random Graph (PARTS I & II)
06:30 PM - 08:00 PM	—	<b>DINNER AT AMBROSIA</b>