



## INVITED TALK

**Place :** Board Room , Shyam Lal College

**Date:**30/01/2026

**Number of Participants:** 50 students and 12 Teachers

A seminar was organized by Anantsparshi, the Mathematics Society of Shyam Lal College, on 30<sup>th</sup> January 2026 at 11:30 a.m. in the College Boardroom. The Seminar was conducted under the guidance of the Department of Mathematics with the objective of providing academic enrichment and professional career orientation to students of Mathematics.

The seminar was convened by Dr. Sudhir Kumar Yadav, Assistant Professor, Department of Mathematics, and was held under the supervision of the Teacher-in-Charge, Dr. Vinod Kumar, Department of Mathematics, Shyam Lal College. The event witnessed enthusiastic participation from students of B.Sc. (Hons.) Mathematics, particularly second- and third-year students, along with those aspiring for higher studies and research.

The session was anchored by Ankush Paul and Keshav, students of B.Sc. (Hons.) Mathematics, 2<sup>nd</sup> Year. The event was efficiently coordinated and supported by the dedicated volunteers of Anantsparshi, whose efforts ensured the smooth conduct of the seminar.

The seminar consisted of two sessions. Mr. Gurpreet Babbar and Dr. Pratima Rai delivered insightful lectures and guided students on actuarial science and ordinary differential equations.

## **Session I**

The first session of the seminar was delivered by Mr. Gurpreet Babbar, Team Lead (Actuarial) at Accenture. His lecture focused on the topic “Exploring Actuarial Science and Its Prospects in India.”

Mr. Babbar began by introducing the field of Actuarial Science and explaining the role of an actuary in analyzing financial risks using mathematical, statistical, and analytical tools. He elaborated on how actuaries play a crucial role in sectors such as insurance, finance, pension planning, consulting, and risk management.

During the session, he guided students through the step-by-step process of becoming an actuary, the structure and stages of actuarial examinations, the number of papers and examination pattern, Registration procedures and preparation strategies, The affordability and feasibility of pursuing actuarial studies alongside graduation, The growing demand for actuaries in India and globally, He also shared insights into the approximate number of qualified actuaries in India and emphasized the increasing opportunities in this domain. The session was highly interactive, as he engaged students by asking questions,

encouraging participation, and addressing their doubts regarding career prospects, internships, salary expectations, and required skill sets.

Beyond academic information, Mr. Babbar motivated students to develop consistency, analytical thinking, and problem-solving abilities. His guidance provided clarity to many students who are considering alternative career paths beyond traditional options in Mathematics.

## **Session II**

The second lecture was delivered by Dr. Pratima Rai, Associate Professor in the Department of Mathematics, University of Delhi, on the topic “Role of Analysis and Computations in Differential Equations.” Dr. Rai is an experienced academician with a long and distinguished teaching career at the University of Delhi. Her areas of research specialization include Ordinary Differential Equations, singularly perturbed differential equations, and numerical methods. She has presented research papers at several national and international conferences and has been invited to deliver talks on advanced topics in differential equations. She has also received research support under University of Delhi grants and is a lifetime member of the Indian Society for Industrial and Applied Mathematics (ISIAM).

With extensive experience in guiding higher research, Dr. Rai is currently involved in teaching and mentoring M.Phil. and Ph.D. scholars, in addition to postgraduate and undergraduate students. During her lecture, she discussed the analytical framework and computational techniques involved in solving ordinary differential equations, emphasizing conceptual clarity and structured problem-solving approaches. She elaborated on first- and second-order differential equations and highlighted the role of analysis in understanding

mathematical models used in scientific applications. She emphasized the importance of conceptual understanding over rote application of formulae and encouraged students to approach mathematical problems with logical reasoning and analytical depth.

The session included problem-based explanations and interactive discussions, making it engaging and academically enriching.

### **Participation and Coordination**

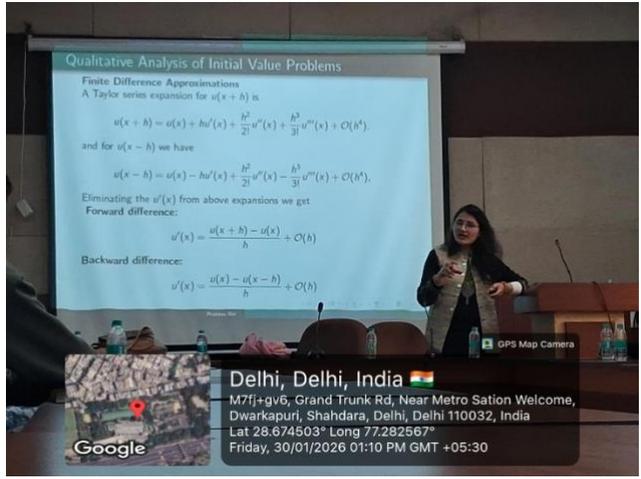
The seminar reflected the academic vibrancy of the Department of Mathematics. The presence of faculty members and active student participation contributed to a highly engaging environment. The anchors conducted the proceedings with clarity and confidence, while the volunteers of Anantsparshi ensured proper management of logistics and coordination throughout the programme.

### **Conclusion**

The seminar proved to be a meaningful and enriching experience for the students. It offered a balanced blend of career orientation and academic insight, allowing participants to explore new professional possibilities while also strengthening their conceptual understanding of core mathematical topics. The interaction with industry and academic experts created a platform where students could connect classroom learning with real-world applications and higher research perspectives.

The programme reflected the Department of Mathematics' continued commitment to fostering academic growth, career awareness, and intellectual curiosity among students. The active engagement of participants throughout the seminar demonstrated their keen interest in both emerging career avenues and advanced mathematical studies.

Overall, the event was a constructive and impactful initiative that added significant value to the academic environment of the college.





**SLC** (University of Delhi)  
**Shyam Lal College**

NAAC A++ & NIRF AIR 43<sup>rd</sup>

**DEPARTMENT OF MATHEMATICS**  
**Anantsparshi : The Mathematical Society of SLC**

*Invites you to invited Talk*



**TOPIC :**  
**ROLE OF**  
**ANALYSIS AND**  
**COMPUTATIONS**  
**IN DIFFERENTIAL**  
**EQUATIONS**

**SPEAKER:**  
 Dr. Pratima Rai  
 Associate Professor  
 Department of Mathematics,  
 University of Delhi



**TOPIC :**  
**EXPLORING**  
**ACTUARIAL SCIENCE**  
**AND ITS PROSPECTS**  
**IN INDIA**

**SPEAKER:**  
 Mr. Gurpreet Babbar  
 Team Lead (Actuarial),  
 Accenture



**30th January, 2026**  
**Seminar Room**  
**10:30 am onwards**



SCAN NOW

**ORGANIZING TEAM**

*Prof. Subodh Kumar, Mr. Batram Kindra, Dr. Anuj Kumar Sharma, Dr. Mukesh Kumar, Dr. Virender, Mr. Sandeep Kumar, Dr. Rahul Boadh, Dr. Rajni Arora, Dr. Seema Guglani, Dr. Swati Yadav, Dr. Saubhagyaaxmi Singh*

**Dr. Vinod Kumar**  
 (TIC, Department of Mathematics)

**Dr. Sudhir Kumar Yadav**  
 (Convenor, Anantsparshi)

**Prof. Rabi Narayan Kar**  
 (Professor- Principal)

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