



BIRLA PUBLIC SCHOOL GANGANAGAR

(A UNIT OF BIRLA EDUCATION TRUST PILANI)

(A step ahead.....)

Session: 2025-26

Ref No. BPSG/2025-26/EC/0063-XI

Mathematics Event Announcement

Set Theory – The Power of Collection

Date: 28th January, 2026

Dear Students,

We are delighted to announce that **Birla Public School** will be organizing a Mathematics enrichment activity titled “**Set Theory – The Power of Collection**” for the students of **Class XI**. This initiative aims to deepen students’ understanding of **Set Theory**, one of the fundamental building blocks of modern mathematics, through interactive and thought-provoking activities.

Objectives:

The main objectives of *Set Theory – The Power of Collection* are to:

- Develop clarity in the concepts of sets, relations, and operations.
- Encourage analytical and logical reasoning among learners.
- Promote teamwork and application-oriented mathematical thinking.
- Enable students to connect Set Theory with real-life contexts and data organization.

About the Topic – Set Theory:

Set Theory is the **foundation of modern mathematics** – it forms the basis for algebra, geometry, probability, and computer science. The concept of grouping and categorizing elements into sets allows us to understand relationships, organize data, and solve complex problems logically. Through this activity, students will explore **unions, intersections, Venn diagrams, and real-life applications** of sets in an engaging and creative manner.

Importance:

Understanding Set Theory enhances logical reasoning and problem-solving ability. It helps students analyze information systematically, an essential skill in fields such as **data science, artificial intelligence, and statistics**. This activity will strengthen the mathematical foundation required for higher studies and research-oriented learning.

Activities to be Conducted:

- **Concept Quest:** Quiz on basic and advanced concepts of Set Theory.
- **Venn Vision:** Designing creative and real-life-based Venn diagrams.
- **Application Arena:** Group discussion on the use of Set Theory in technology and data management.
- **Math Integration Challenge:** Relating sets to functions and probability through examples.

Venue, Date & Time:

Venue: Respective Classrooms – Class XI

Date: 28th January 2026

Time: During Regular School Hours

We encourage all students to participate enthusiastically and explore how “**Set Theory**” forms the backbone of mathematical logic and everyday reasoning.

With best wishes,

Head of Department (Mathematics)

Birla Public School, Ganganagar