# INDIAN STATISTICAL INSTITUTE
# KOLKATA

# SPARQ 2026

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# ABOUT US



SPARQ (Statistical and Probabilistic Analysis of Real-life Quant) is a premier technical event under the banner of INTEGRATION, the annual fest of the Indian Statistical Institute, Kolkata. Rooted in the institute's legacy of excellence in statistics, mathematics, and data science, SPARQ celebrates the power of analytical thinking and quantitative reasoning.

The event brings together participants passionate about data, probability, and real-world problem-solving. Through engaging challenges and intellectually stimulating rounds, SPARQ provides a platform for budding quants and analysts to apply statistical insights to complex, practical scenarios. It embodies the spirit of curiosity, precision, and innovation – where data transforms into discovery, and analytical minds converge to solve the unsolved.
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# IMPORTANT DATES

## A. JUNIORS (XI & XII)

| Event | Date |
|---|---|
| Registration Open | November 10, 2025 |
| Transaction Deadline | December 31, 2025 (23:59:59) |
| Examination Day | January 3, 2026 |
| Final Results | Within 1 week |
| Camp | Jan 10, 2026 (Tentative) |

# IMPORTANT DATES

## B. SENIORS (Undergrads)

| Event | Date |
|---|---|
| Early Bird Registration (For Exam + Workshop) | November 10 - December 25, 2025 |
| Late Registration (Only for Workshop) | December 26, 2025 - January 16, 2026 |
| Examination Round 1 | January 4, 2026 |
| Camp Registration | January 10- January 30, 2026 |
| Examination Round 2 | Starts within 1 week of Round 1 |
| Workshop | 3rd Week of January 2026 (Tentative) |
| Final Results | By Last week of January 2026 |
| Camp | 1st week of February, 2026 (Tentative) |

# EVENT STRUCTURE

## SPARQ JUNIOR (XI & XII)

- The examination will be conducted in an online proctored mode for a duration of 2 hours. The test will comprise multiple-choice questions (MCQs) only.
- Participants will be added to a Google Classroom prior to the exam for instructions, resources, and access to the test link.
- The examination will be strictly proctored via Google Meet, and all candidates must keep their cameras on throughout the duration of the test.

## SPARQ SENIOR (Undergraduates)

- **ROUND 1**

A 1-hour online exam hosted on CodeChef, featuring MCQs , Integer-type questions and coding problems. Designed to test problem-solving and competitive programming aptitude.

- **ROUND 2**

A 1-week online hackathon hosted on a platform like Kaggle. Participants will build and submit models/solutions to a real-world problem statement. Platform details will be shared prior to the round.

# SYLLABUS

## SPARQ JUNIOR* (XI & XII)

- **Algebra** – Set Theory, Quadratic Equations and Complex Numbers, Matrices and Determinants, Sequences and Series, Binomial Theory, Permutation & Combination.
- **Calculus –** Limit, Continuity, Differential Calculus, Integral Calculus, Differential Equations.
- **Coordinate Geometry –** Straight Lines, Circles, Conic Sections.
- **Statistics & Probability**, **Trigonometry**
- **Puzzles**

*Syllabus and difficulty level will be at par with JEE Mains*

## SPARQ SENIOR* (Undergraduates)

- **ROUND 1**
  - Linear Algebra
  - Sequences, Limit, Continuity, Differential Calculus, Integral Calculus.
  - Statistics & Probability
  - Puzzles
  - Basic Competitive Programming concepts

- **ROUND 2**

A week long hackathon (open modeling/prediction problem) based on data science and quantitative finance concepts in collaboration with our sponsors.

*\*Any changes made by the organizers in the Event Structure will be considered final.*

# CAMP DETAILS

## SPARQ JUNIOR (XI & XII)

- Top performers will be awarded cash prizes, and the top 10% will earn an exclusive opportunity to attend an online session led by distinguished professors from **ISI** and **IITs**.

- Top performers will receive a certificate of merit. All participants will receive a certificate for participatition.

## SPARQ SENIOR (Undergraduates)

- Participants who register will get the opportunity to attend an exclusive **workshop** conducted by industry experts, professors from IIT and ISI, and experts from **CAIML** – a prominent AI/ML research lab at ISI Kolkata.
- The Best Performers in both the rounds will get **Merit Certificates** & an opportunity to join a two day - long **Industry Interaction Camp**, where they will engage with leading professionals from firms such as **J.P. Morgan**, **Standard Chartered**, **Goldman Sachs**, and other top-tier financial institutions.
- Participation Certificates will be awarded to all those who register for the exam.
- Certificate(s) will be awarded for attending the Workshop &/or Camp.

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# PAYMENT DETAILS

## A. <u>JUNIORS</u>

| Event | FEES |
|-------|------|
| Registration | Rs. 200/- |

## B. <u>SENIORS</u>

| Event | FEES |
|-------|------|
| Early Bird Registration (For Exam + Workshop) | • Rs. 250/- (Only through Campus Ambassadors)<br>• Rs. 300/- (For single entries) |
| Late Registration (Only for Workshop) | • FREE for everybody registering for the exam<br>• Rs. 700/- for late registration |
| Camp Registration | • Free (for the best performers)<br>• Rs. 1000/- (for others) |

*Registration fees is non-refundable*

# Click here to register!

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# Contact Us



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