



## SHIVAJI COLLEGE

UNIVERSITY OF DELHI

NAAC ACCREDITED 'A' GRADE



### Add-on Course

on

### “Mental Ability And Logical Reasoning”

(Online)

1<sup>st</sup> September - 16<sup>th</sup> November,  
2025

**Organized by:**

Department of Mathematics

**Who can attend?**

This course is open for the students pursuing any undergraduate course. 20% of seats are open for students of another college/institute.

### ABOUT COLLEGE

Shivaji College is a premier institution in West Delhi, accredited with grade 'A' by NAAC. It has secured 49<sup>th</sup> rank in the country by NIRF 2024 rankings. The college has also earned a prestigious position in the India Today All India Rankings 2025, securing 23<sup>rd</sup> rank in Commerce, 32<sup>nd</sup> in Science, and 36<sup>th</sup> in Humanities across India. Among Delhi colleges, the institution ranks 14<sup>th</sup> in Commerce, 15<sup>th</sup> in Science, and 16<sup>th</sup> in Humanities, reflecting its growing academic reputation. It was established in 1961 by Hon'ble Dr Panjabrao Deshmukh, Union Minister for Agriculture and a renowned social activist and farmer-leader. The college offers twenty UG courses in Science, Commerce and Humanities, a self-financing course in Bachelors in Business Economics, and three PG courses. Several senior faculty members supervise Ph.D. scholars registered with University of Delhi, while some engage in UGC-sponsored major/minor research projects. Some students of the college frequently emerge as rank-holders in the University examinations and many are placed for internships in prestigious organizations annually.

### ABOUT DEPARTMENT

The Department of Mathematics, Shivaji College comprises highly qualified and dedicated faculty that specialize in diverse areas such as algebra, dynamical systems, sampling theory, differential equations. A variety of educational dissemination activities for students are carried out every year via seminars, workshops, etc. Faculty members are constantly engaged in research activities and keep updating themselves in the subject.

### PATRON

**Prof. Virender Bhardwaj**

Principal

Shivaji College

### CONVENOR (ADD ON COURSE)

**Dr. Richa Arora**

Assistant Professor

Department of Chemistry

### COURSE CONVENOR

**Prof. Mridula Budhraj**

Professor

Department of Mathematics

### COURSE COORDINATOR

**Dr. Aparna Jain, Dr. Babita Gupta**

Associate Professor

Department of Mathematics

**Dr. Rashmi Agrawal, Dr. Chandra**

**Prakash, Mr. Nitesh Kumar**

Assistant Professor

Department of Mathematics



## COURSE OBJECTIVE

This course is designed to prepare the students for various competitive and professional examinations. The course content helps them to enhance their logical analytical reasoning to optimize their problem-solving skills. The course structure emphasizes on honing their previously learnt mathematical techniques necessary for cracking various exams and boost up their mental ability to achieve their goal.

## WHY THIS COURSE

- This course will enhance students' skill for solving Quant in various competitive exams within limited time constrain.
- This course includes all different types of reasoning which help the students to think logically, identify patterns and solve complex problems.
- The vast domain of logical reasoning not only sharpen students' mental ability but also enhance their decision- making abilities.
- In addition, this course is not just to enhance cognitive skills but it is pivotal for well-informed conscious living.

## COURSE CONTENT

- Module I - Analogy, Classification, Series Completion
- Module II - Coding-Decoding, Blood relations, Puzzle test
- Module III - Number, Ranking and time sequence test, Mathematical operations, Logical sequence of words
- Module IV - Arithmetical reasoning, Inserting the missing character and five figure series, Decision making embedded figure, Paper folding cutting
- Module V - Assertion and reason, situation reaction test, Mirror/water images
- Module VI - Problems on cubes and dice and construction of sequence and triangles

## POINTS TO REMEMBER

- The participants must fill the registration form online by 20th August, 2025 to enroll in the course. The course registration is free.
- All students pursuing any UG programme are eligible for the course.
- Limited seats are available on first-come first-served basis.
- Certificates will be issued to students who complete the course successfully based on **their assessment and attendance**.
- Classes will be held in online mode.

## LINK FOR REGISTRATION

### NO REGISTRATION FEE

Scan here for the Registration



**Last date of Registration:**  
20<sup>th</sup> August, 2025

### Contact Details:

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