

Advisory for Applicants on Maths proficiency

1. Advisory on Mathematical Proficiency

Before joining the programme, applicants are expected to be comfortable with **undergraduate-level mathematics** in the following areas:

- **Probability and Statistics:** descriptive measures, distributions, random variables, correlation, regression, hypothesis testing
- **Linear Algebra:** vectors, matrices, determinants, eigenvalues, transformations
- **Calculus:** differentiation, integration, and optimization concepts
- **Discrete Mathematics:** sets, relations, logic, and combinatorics

Applicants should Self-assess their proficiency in Math topics mentioned above. Those who feel the need to refresh or strengthen their fundamentals are strongly encouraged to first enrol in the Mathematics Bridge Programme.

2. The Mathematics Bridge Programme

Duration: 4 months (one trimester)

Objective: Strengthen foundational mathematics skills essential for success in the M.Sc. DS & AI programme.

Mode: 100% online

Design: Tailored by BITS Pilani Digital to match the exact mathematical foundations required before pursuing the MSc in DS & AI.

Upon successful completion, learners will receive an offer of admission to the next available batch of the M.Sc. DS & AI programme. Students enrolling in the bridge programme will **pay only the bridge course fee (INR 8,250 only) initially**. After successful completion and at the time of admission, they will subsequently **pay the applicable fee** for the M.Sc in DS & AI. programme.

3. Enrolment Options

Eligible applicants receiving an admission offer can choose between:

1. **Direct Enrolment** into the M.Sc. DS & AI programme, if confident in mathematical proficiency; or
2. **Bridge Pathway**, where they first complete the 4-month Mathematics Bridge Programme and then join the next M.Sc. cohort.
