

TS EAMCET 2024 Syllabus for Mathematics

The mathematics section of the exam for the engineering stream will include questions based on subjects given below.

Algebra Syllabus

This subject includes the following topics:

- Matrices and types of Matrices
- Equality of Matrices, transpose of a Matrix
- Symmetric and Skew Symmetric Matrix
- Algebra of Matrices
- Determinants
- Inverse of a Matrix
- Solving simultaneous equations using the Matrix Method

Topics in Trigonometry

The questions based on the trigonometry under the mathematics section will be derived from the topics given below:

- Trigonometric identities and equations
- Trigonometric functions
- Inverse trigonometric functions and their properties
- Heights and distance

Topics in Probability

The probability-based questions will be based on the following:

- Random variables and their probability distribution
- Expected value of a random variable
- Variance and Standard Deviation of a random variable

Calculus Topics

The question based on the subject can include the following topics:

- Higher order derivatives
- Tangents and Normals
- Increasing and Decreasing Functions
- Maxima and Minima

Detailed Coordinate Geometry

Candidates can check the following topics to understand the questions that will be included in the exam based on coordinate geometry:

- Cartesian system of rectangular coordinates in a plane,
- Distance formula,
- Sections formula,
- Locus and its equation,
- Translation of axes,
- The slope of a line,
- Parallel and perpendicular lines,
- Intercepts of a line on the coordinate axis