

TS EAMCET Syllabus 2018 – Mathematics

ALGEBRA

Theory of Equations.

De Moivre's Theorem.

Matrices.

Complex Numbers.

Mathematical Induction.

Quadratic Expressions.

Permutations and Combinations.

Functions.

Partial fractions.

Binomial Theorem.

TRIGONOMETRY

Hyperbolic Functions.

Trigonometric Equations.

Inverse Trigonometric Functions.

Trigonometric Ratios up to Transformations.

Properties of Triangles.

VECTOR ALGEBRA

Product of Vectors.

Addition of Vectors.

PROBABILITY

Random Variables and Probability Distributions.

Probability.

Measures of Dispersion.

COORDINATE GEOMETRY

A pair of Straight Lines.

Transformation of Axes.

The Straight Line.

Locus.

Circle.

Plane.

Hyperbola.

Ellipse.

Parabola.

Direction Cosines and Direction Ratios.

Three-Dimensional Coordinates.

System of circles.

CALCULUS

Limits and Continuity.

Differentiation.

Applications of Derivatives.

Definite Integrals.

Integration.

Differential equations