List of Coordinate Geometry Topics in TS EAMCET 2025

List of Coordinate Geometry Topics in TS EAMCET 2025	Sub-Topics
Locus	Definition of locus - Illustrations - Equations of locus - Problems connected to it.
Transformation of Axes	Transformation of axes - Rules, Derivations and Illustrations - Rotation of axes - Derivations - Illustrations.
The Straight Line	Revision of fundamental results - Straight line - Normal form - Illustrations - Straight line - Symmetric form - Straight line - Reduction into various forms - Intersection of two Straight Lines - Family of straight lines - Concurrent lines - Condition for Concurrent lines - Angle between two lines - Length of perpendicular from a point to a Line - Distance between two parallel lines - Concurrent lines - properties related to a triangle.
Pair of Straight lines	Equations of pair of lines passing through origin - angle between a pair of lines - Condition for perpendicular and coincident lines, bisectors of angles - Pair of bisectors of angles - Pair of lines - second degree general equation - Conditions for parallel lines - Distance between them, Point of intersection of pair of lines - Homogenizing a second degree equation with a first degree equation in x and y.
Circle	Equation of circle -standard form-centre and radius Position of a point in the plane of a circle - Definition of tangent. Position of a straight line in the plane of a circle conditions for a line to be tangent - chord of contact and polar. Relative positions of two circles.
System of circles	Angle between two intersecting circles - Radical axis of two circles
Parabola	Conic sections - Equations of tangent and normal at a point on the parabola
Ellipse	Equation of ellipse in standard form- Parametric

	equations - Equation of tangent and normal at a point on the ellipse.
Hyperbola	Equation of hyperbola in standard form - parametric equations - Equations of tangent and normal at a point on the Hyperbola
Three Dimensional Coordinates	Coordinates - Section formulae
Direction Cosines and Direction Ratios	Direction Cosines - Direction Ratios
Plane	Cartesian Equation of Plane - Simple Illustrations