

Mathematics

DSE - 1 (Discipline Specific Elective - 1): Theory - “Three Dimensional Geometry”

Block - I : The Plane

- Unit - 1 : Three Dimensional Space
- Unit - 2 : Direction Cosines and Ratios
- Unit - 3 : Equations of a Plane

Block - II : The Line

- Unit - 4 : Equations of a Line
- Unit - 5 : Plane and Straight Line
- Unit - 6 : Skew Lines and Shortest Distance

Block - III : The Sphere

- Unit - 7 : Equation of a Sphere - Different Forms
- Unit - 8 : Tangent , Normal and Polar Planes to a Sphere
- Unit - 9 : System of Spheres

Block - IV : Cone and Cylinder

- Unit - 10 : Cone
- Unit - 11 : The Right Circular Cone
- Unit - 12 : Cylinder

Discipline Specific Elective - 1: Practical - “Three Dimensional Geometry”

Block - I : The Plane and The Line

- Unit - 1 : Direction Cosines And Ratios
- Unit - 2 : Equations of a Plane
- Unit - 3 : Equations of a Line
- Unit - 4 : Skew Lines and Shortest Distance

Block - II : The Sphere , Cone and Cylinder

- Unit - 5 : Equation of a Sphere
- Unit - 6 : Tangent , Normal and Polar Planes to a Sphere
- Unit - 7 : Cone and the Right Circular Cone
- Unit - 8 : Cylinder