Subject : Mathematics

Teacher name: Sujata, Paper 3 Semester 1st

November 2020

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| General equation of second degree. Tracing of conics. Tangent at any point to the conic, chord of contact, pole of line to the conic, director circle of conic. System of conics. Confocal conics. Polar equation of a conic, tangent and normal to the conic. |

December 2020

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| Sphere: Plane section of a sphere. Sphere through a given circle. Intersection of two spheres, radical plane of two spheres. Co-oxal system of spheres  Cones. Right circular cone, enveloping cone and reciprocal cone.  Cylinder: Right circular cylinder and enveloping cylinder. |

January2021

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| Central Conicoids: Equation of tangent plane. Director sphere. Normal to the conicoids. Polar plane of a point. Enveloping cone of a coincoid. Enveloping cylinder of a coincoid. |

February 2021

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| Paraboloids: Circular section, Plane sections of conicoids.  Generating lines. Confocal conicoid. Reduction of second degree equations. |