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|  | B.sc 1 sem, solid geometry |
| Week | Topics |
| 1 | General equation of second degree. Tracing of conics. Tangent at any point to the conic |
| 2 | pole of line to the conic, director circle of conic. System of conics. Confocal conics. |
| 3 | Polar equation of a conic, tangent and normal to the conic. |
| 4 | Sphere: Plane section of a sphere. Sphere through a given circle. Intersection of two spheres |
| 5 | radical plane of two spheres. Co-oxal system of spheresCones. Right circular cone, enveloping cone and reciprocal cone. |
| 6 | Cylinder: Right circular cylinder and enveloping cylinder. |
| 7 | Central Conicoids: Equation of tangent plane. Director sphere |
| 8 | Normal to the conicoids. Polar plane of a point. |
| 9 | Enveloping cone of a coincoid. Enveloping cylinder of a coincoid. |
| 10 | Paraboloids: Circular section, Plane sections of conicoids. |
| 11 | Generating lines. Confocal conicoid. |
| 12 | Reduction of second degree equations. |