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RGPV B.Tech – First Year Syllabus

BT-105: Engineering Graphics

Unit I: Introduction to Engineering Drawing

- Principles of Engineering Graphics and their significance
- Usage of drawing instruments, lettering
- Conic sections: ellipse, parabola, hyperbola (general method)
- Cycloid, epicycloid, hypocycloid, involute
- Scales: plain, diagonal, and vernier

Unit II: Orthographic Projections

- Principles and conventions
- Projections of points and lines inclined to both planes
- Projections of planes inclined to reference planes
- Auxiliary planes

Unit III: Projections of Solids

- Projections of regular solids inclined to both planes
- Auxiliary views
- Simple annotation, dimensioning, and scale
- Basic floor plans with windows, doors, fixtures (WC, bath, sink)

Unit IV: Isometric and Perspective Drawing

- Isometric projection and views
- Perspective drawing: one-point and two-point perspectives
- Surface development and intersection of solids

Unit V: Computer Graphics

- Engineering graphics software
- Spatial transformations, orthographic projections
- Model viewing, coordinate systems
- Multi-view projection, exploded assembly
- Surface and solid modeling, introduction to BIM



Download Official Syllabus

- [RGPV Notes – BT-105 Breakdown](#)
- [Career Shiksha – BT-105 PYQs](#)

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