

# University of Pretoria Yearbook 2016

## Engineering graphics and design 120 (JTT 120)

**Qualification** Undergraduate

**Faculty** [Faculty of Education](#)

**Module credits** 16.00

**Programmes** [BEd Senior Phase and Further Education and Training Teaching](#)

**Prerequisites** MGC 110 40% GS

**Contact time** 1 practical per week, 3 lectures per week

**Language of tuition** Double Medium

**Academic organisation** Science, Maths + Techno Ed

**Period of presentation** Semester 2

### Module content

Drawing standards, geometrical concepts and constructions, scales, 1st and 3rd angle orthographic projections, descriptive geometry: points and line segments, oblique planes. Isometric and perspective drawings. Plane figures, solid geometry, developments and interpenetrations. Conventions, symbols, structures and techniques appropriate to Mechanical and Civil drawings. Freehand sketches. Design principles. Knowledge and skills will be applied in a compulsory design project..

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