

University of Pretoria Yearbook 2017

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 Afrikaans and English is used in one class

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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