

University of Pretoria Yearbook 2022

Engineering graphics and design 120 (JTT 120)

Qualification Undergraduate

Faculty [Faculty of Education](#)

Module credits 16.00

NQF Level 05

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

Prerequisites No prerequisites.

Contact time 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Science Mathematics and Technology Education

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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