



University of Pretoria Yearbook 2021

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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