

University of Pretoria Yearbook 2022

Manufacturing and design 217 (MOW 217)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	06
Programmes	BEng (Mechanical Engineering) BEng (Industrial Engineering) BEng (Industrial Engineering) ENGAGE BEng (Mechanical Engineering) ENGAGE
Prerequisites	MGC 110
Contact time	3 lectures per week, 4 tutorials per week
Language of tuition	Module is presented in English
Department	Mechanical and Aeronautical Engineering
Period of presentation	Semester 1

Module content

Conceptual consideration of the phases in mechanical design acknowledging the many feedbacks & iterations. Detailed exposure to machine elements, including fasteners, gears, belts, chains and bearings. Selection of standard mechanical components. Detailed exposure to machining processes used to manufacture components for mechanical machines. Detailed exposure to GD&T (Geometric Dimensioning & Tolerancing) needed for manufacturing drawings.

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