



# 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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