

University of Pretoria Yearbook 2017

Machine design 312 (MOW 312)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 16.00

Programmes [BEng Mechanical Engineering](#)
[BEng Mechanical Engineering ENGAGE](#)

Prerequisites MOW 217, (MOW 227)

Contact time 3 tutorials per week, 3 lectures per week

Language of tuition Module is presented in English

Academic organisation Mechanical and Aeronautical En

Period of presentation Semester 1

Module content

Open-ended subsystem design using the following elements: Beams, shafts, bolts, bearings, rivets, welds, springs, couplings, clutches, brakes, gears and gear systems. Static and fatigue design fundamentals. Code design: Pressure vessels, structural steel design, hoisting systems and ropes, welding SANS code.

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