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# University of Pretoria Yearbook 2018

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## Machine design 312 (MOW 312)

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| <b>Qualification</b>          | Undergraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>              |
| <b>Module credits</b>         | 16.00   |
| <b>Programmes</b>             | <a href="#">BEng Mechanical Engineering</a><br><a href="#">BEng Mechanical Engineering ENGAGE</a> |
| <b>Prerequisites</b>          | MOW 217, (MOW 227)  |
| <b>Contact time</b>           | 3 lectures per week, 3 tutorials per week   |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Mechanical and Aeronautical Engineering   |
| <b>Period of presentation</b> | 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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