

# University of Pretoria Yearbook 2022

## Dynamics 780 (MSD 780)

**Qualification** Postgraduate

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

**Module credits** 16.00

**NQF Level** 08

**Programmes** [BEngHons Mechanical Engineering](#)

[BScHons \(Applied Science\) Mechanics](#)

**Prerequisites** No prerequisites.

**Contact time** 21 contact hours per semester

**Language of tuition** Module is presented in English

**Department** Mechanical and Aeronautical Engineering

**Period of presentation** Semester 2

### Module content

Planar multibody dynamics with special emphasis on the mathematical formulation of the equations of motion of a multibody mechanism that moves in a two-dimensional plane instead of in three-dimensional space. Numerical techniques for solving the equations of motion will also be applied.

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