

University of Pretoria Yearbook 2020

Dynamics 210 (MSD 210)

Undergraduate
Faculty of Engineering, Built Environment and Information Technology
16.00
BEng Electrical Engineering
BEng Electrical Engineering ENGAGE
BEng Electronic Engineering
BEng Electronic Engineering ENGAGE
BEng Industrial Engineering
BEng Industrial Engineering ENGAGE
BEng Mechanical Engineering
BEng Mechanical Engineering ENGAGE
BEng Metallurgical Engineering
BEng Metallurgical Engineering ENGAGE
BEng Mining Engineering
BEng Mining Engineering ENGAGE
FSK 116 or FSK 176 and SWK 122 and WTW 256 #
2 tutorials per week, 3 lectures per week
Module is presented in English
Mechanical and Aeronautical Engineering
Semester 1

Module content

Kinetics of systems of particles, Newton's 2nd law generalised for a system of particles, rate of change of momentum and angular momentum relations, work-energy relations, conservation laws, steady mass flow. Plane kinematics of rigid bodies, rotation, translation, general 2D motion, relative motion analysis. Moments and products of inertia. Plane kinetics of rigid bodies, equations of motion, rotation, translation, general 2D motion, work-energy relations. Vibration and time response.

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